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OM nucleic - nucleic search, using sw model

Run on: May 10, 2005, 16:53:38 ; Search time 340 Seconds  
(without alignments)  
9543.343 Million cell updates/sec

Title: US-10-001-227-1  
Perfect score: 1883  
Sequence: 1 ccttgcgaattcgccga.....gtttaaaccctgaggactag 1983

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:\*

1: /cgn2\_6/ptodata/1/ina/5A COMB.seq:\*

2: /cgn2\_6/ptodata/1/ina/5B COMB.seq:\*

3: /cgn2\_6/ptodata/1/ina/6A COMB.seq:\*

4: /cgn2\_6/ptodata/1/ina/6B COMB.seq:\*

5: /cgn2\_6/ptodata/1/ina/PTCUS COMB.seq:\*

6: /cgn2\_6/ptodata/1/ina/backfile1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	427.2	21.5	1717	4	US-09-595-682B-20
2	424	21.4	1701	3	US-09-264-737-3
3	346.4	17.5	1453	4	US-09-799-451-562
4	319.2	16.1	2117	4	US-09-949-016-3799
5	319.2	16.1	2169	4	US-09-949-016-555
6	319.2	16.1	2191	4	US-09-595-682B-27
7	272.8	13.8	1746	4	US-10-023-515-3
8	272.8	13.8	2158	4	US-10-023-515-1
9	205	10.3	10827	4	US-09-949-016-12297
10	148.2	7.5	1725	4	US-09-810-861B-5
11	148.2	7.5	1845	5	US-07-732-962A-1
12	148.2	7.5	1845	5	PCT-US92-06106-1
13	148.2	7.5	2158	4	US-09-949-016-1192
14	148.2	7.5	2256	2	US-08-370-156-1
15	148.2	7.5	2256	2	US-08-318-826A-5
16	148.2	7.5	2256	2	US-08-370-156-1
17	148.2	7.5	2256	2	US-08-814-095-1
18	148.2	7.5	3016	2	US-08-318-826A-7
19	148.2	7.5	3016	2	US-08-370-156-5
20	148.2	7.5	3016	3	US-08-814-095-5
21	148.2	7.5	3096	2	US-08-318-826A-6
22	148.2	7.5	3096	2	US-08-370-156-3
23	148.2	7.5	3096	3	US-08-814-095-3
24	148.2	7.5	5767	4	US-09-810-861B-3
25	148.2	7.5	14446	4	US-09-810-861B-4
26	137.2	6.9	9885	4	US-09-949-016-12934
27	137.2	6.9	9885	4	US-09-949-016-12935

28	137.2	6.9	35060	3	US-08-814-095-7	Sequence 7, Appli
29	124.4	6.3	2184	1	US-08-445-050-8	Sequence 8, Appli
30	124.4	6.3	2184	1	US-08-204-691-8	Sequence 8, Appli
31	124.4	6.3	2375	4	US-09-949-016-3976	Sequence 3976, Ap
32	124.4	6.3	2428	1	US-08-445-050-1	Sequence 1, Appli
33	124.4	6.3	2428	1	US-08-204-691-1	Sequence 1, Appli
34	124.4	6.3	2428	4	US-09-355-295B-2	Sequence 2, Appli
35	124.4	6.3	2487	3	US-08-370-223-12	Sequence 12, Appl
36	124.4	6.3	2734	4	US-09-569-611C-5	Sequence 5, Appli
37	124.4	6.3	2781	4	US-09-569-611C-6	Sequence 6, Appli
38	124.4	6.3	3018	1	US-08-347-718B-3	Sequence 3, Appli
39	124.4	6.3	3018	1	US-08-482-262-3	Sequence 3, Appli
40	124.4	6.3	3018	6	5200183-1	Patent No. 5200183
41	124.4	6.3	3018	6	5200183-1	Patent No. 5200183
42	122.8	6.2	2344	3	US-09-347-878-31	Sequence 31, Appl
43	117	5.9	965	4	US-09-799-451-155	Sequence 155, App
44	117	5.9	1905	3	US-09-347-878-33	Sequence 33, Appl
45	117	5.9	1907	1	US-08-462-884A-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1

US-09-595-682B-20

; Sequence 20, Application US/09595682B

; Patent No. 6800483

; GENERAL INFORMATION:

; APPLICANT: Danks, Mary K.

; APPLICANT: Potter, Philip M.

; APPLICANT: Houghton, Peter J.

; TITLE OF INVENTION: Compositions and Methods for Sensitizing and Inhibiting Growth o

; TITLE OF INVENTION: Tumor Cells

; FILE REFERENCE: SJ-0005

; CURRENT APPLICATION NUMBER: US/09/595,682B

; CURRENT FILING DATE: 2000-01-16

; PRIOR APPLICATION NUMBER: 60/075,258

; PRIOR FILING DATE: 1998-02-19

; PRIOR APPLICATION NUMBER: PCT/US99/03171

; PRIOR FILING DATE: 1999-02-12

; NUMBER OF SEQ ID NOS: 30

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 20

; LENGTH: 1717

; TYPE: DNA

; ORGANISM: Oryctolagus cuniculus

US-09-595-682B-20

Query Match 21.5%; Score 427.2; DB 4; Length 1717;  
Best Local Similarity 57.1%; Pred. No. 2e-107;  
Matches 862; Conservative 0; Mismatches 633; Indels 15; Gaps 4;

QY	305	CCCATCCAAGTCTTTT	TAGGAGTCCCTTCTCAGACCTCCTCTAGTATCCTCAGGTTT	364
Db	146	CCGTGGCGTCTTCT	TGGAGTCCCTTCCGAGCCCTTCTGGATCCCTGAGTTT	205
QY	365	GCACCTCCAGAACCC	CGGAGCCCTGGAAAGGAATCAGAGATGCTACCTACCCGCT	424
Db	206	GCACCAACCAAGCT	TCAGAAATCATTTAGCCAGTGAAGAACACCACTCTTACCTCC	265
QY	425	GGGTGCTGAGAGATC	---CTGGGCGAGCTGGCTTCGATGTACGTACAGACGCGGAA	481
Db	266	ATGTGCTCCAGAGCG	AGTATGCTCTCGGAGCTCTTCCAAACAGAAAA	325
QY	482	CGGTACAGTGGCTG	CGCTTACGAGGAGTGTCTGACCTGACGCTACGCGCGCG	541
Db	326	GAGAACATCCCTT	TAAATTTCTGAGAGTCTGCTTACCTGAATATTTACACCCCTGCT	385
QY	542	CGCGCGCCCGGGAT	CCCACTGCTGATGCTTGGTTCCCGGAGGCGGCTTCATC	601
Db	386	GACTGACAAAGAG	AGGAGGCTGCGGATCCATGGAGGTGCTGATG	445
QY	602	GTGGCGCTGCTT	CTTCTGACAGAGGCTCTGACTTGGCGCGCGCGAGAAAGTGGTCTG	661





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; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3799
; LENGTH: 2117
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-3799

Query Match      16.1%; Score 319.2; DB 4; Length 2117;
Best Local Similarity 54.0%; Pred. No. 1.4e-77;
Matches 828; Conservative 0; Mismatches 643; Indels 63; Gaps 6;

Qy      284  CAGATGCATGTGGGGAAGACACCCATCCAAAGTCTTTTAGGAGTCCCTTTCTCCAGACCT 343
Db      195  CATGTGAAGGGCGCCATGTCGGGGTCCAAACCTTCTGGGAATTCATTTGCCAAGCCA 254

Qy      344  CCTCTAGGTATCCTCAGGTTTGCACCTCCAGAAACCCCGGAGCCCTCGAAAGGATCAGA 403
Db      255  CCTCTAGGTCGGCTGCGATTTCACCCCTTGAGCCCTGAAATCTTGGAGTGGTGAGG 314

Qy      404  GATGCTACCACTTACCGCTGGGTGCTGCAGGAGTCTGGGGCCAGCTGCCTCGATG 463
Db      315  GATGGAAACCAACCCATCCGGGCGATGTCTACAGAACCTTACCGCAGTGGAGTCAGATT 374

Qy      464  TACGTACGACACGCGGGAACGGTACAAGTGGCTGCGTTTCAGCGAGAGCTGTCTGTACTG 523
Db      375  CTTAGCCAGTTCACATGACCTTCCCTTCGAGTCCATGTCTGAGGACTGCCCTGACCTC 434

Qy      524  AACGTGTACGCGCGGGCGGGCGCCCGGGGATCCCGAGTCCAGTGCAGTATGTTGTTTC 583
Db      435  AGCATCTACACGCGGGGCCATAGCCATGAAGGCTCTAACTGCGCGGTATGTGTGGATC 494

Qy      584  CCGGAGGCGCTTCATCGTGGGGCGTCTTCTTCGTACGAGGGCTCTGACTTGGCCGCC 643
Db      495  CACGTTGTGGCTGTGTTTGTGGCATGGCTTCCTGTGATGATGTTCCATGCTGGCTGCC 554

Qy      644  CCGGAAAGTGTGCTGGTGTTCGTGACGACAGGCTCGGATCTTCGGCTCTCTGAGC 703
Db      555  TTGGAGAACGTGTTGGTGTTCATCATCCAGTACCGCTGGGTGTCTGGGCTCTTTCAGC 614

Qy      704  ACGGACGACGACCGCGCGGGAACCTGGGGGCTGTGGAACAGATGGCGGCTCTGCGC 763
Db      615  ACTGGAGACAGCAGCAGAACCGGCACTGGGGGCTACCTGGACCAAGTGGCTGCATACGC 674

Qy      764  TGGGTGCAGGGAAACATCCAGCCCTTCGGGGGAGACCCAGGAATGTGACCTGTTCGGC 823
Db      675  TGGGTCCAGCAATATCGCCCACTTTGGAGGCAACCTGACCGGTGTCAACATTTTGGC 734

Qy      824  CAGTCGGCGGGGCCATGAGCATCTCAGGACTGTATGTACACCCCTAGCCTCGGGTCTC 883
Db      735  GAGTCTCGGGGTGGCAGAGTGTGTTTCGCTTGTGTGTTGCCCATATCCCAAGGACTC 794

Qy      884  TTCATCGGGCCATTTCCAGAGTGGCACCGCGTTTATTCAGACTTTTCATCATGATGTAAC 943
Db      795  TTCCACGGAGCCATCATGGAGAGTGGGCGTGGCCCTCTCGCGGCGCTCATTCGCCAGTCA 854

Qy      944  CCACTGAAGTGGCCGAAGAAGTGGCCACCTGGGTGGATGCAACCAACAGCACACAG 1003
Db      855  GCTGATGTCTCATCTCCACGGTGGGCAACCTGTCTGCTGTGACCAAGTTGACTCTGAG 914

Qy      1004  ATCCTGTGTAACCTGCTGAGGGCACTATCAGGGACCAAGGTGATGTCGTGTGTCCAAAG 1063
Db      915  GCCCTGGTGGCTGCTCTGGGG-----GCAAGAGTAAAG 948

1064  ATGAGATTCCTCCAACTGAACCTTCAGAGACCCGGGAAGATTAATCTGTTCCATGAC 1123

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Db	949	AGGAGATTCTTGCAATT-----AA	CAAGCCTTTCAAGATGATCCCC	989
Qy	1124	CCTGTGGTGGATGGTGTGTGATCC	CAGATGACCCCTTTTGGTGCTCTG	CACCCAGGGGAAG 1183
Db	990	GGATGGTGTGATGGGGTCTTCTG	CCAGGCACCCCCAGGAGCTGCTGC	CTCTGCCGAC 1049
Qy	1184	GTTCATCTGTGCCCTTACCTTTAG	TGTGTCACAACTTGGAATTCAAAT	TGGCTCTTGCT 1243
Db	1050	TTTCAGCTGTCCCTAGCATTTGTG	TGTGTCACAACTTGGAATTCGGG	CTGCTATCCCC 1109
Qy	1244	TATATCATGAATTCCTCGCTAAC	CGGAGGGGATGAGAAAGAAACCAT	CACCTAAGATG 1303
Db	1110	AAGTCCATGAGGATCTATGATCC	CAGAAGGAATGGACAGAGGCTCT	CCCAGGCTGCT 1169
Qy	1304	CTCTGGAGTACCGCACCTCTTTG	AATATCACCAAGGAGCGATACCA	TGTGTGTGAG 1363
Db	1170	CTGCAGAAATGTTAAGCGTCTGT	ATGTTGCCCTCTACATTTTGGTG	ACTGCTGAGGAG 1229
Qy	1364	GAGTACCTGGACAAATGTCATG	ATGATGATGCTGGAAGATGCTAC	GAAACCGTATGATGAC 1423
Db	1230	GAGT-----ACATGGGGACAAT	TGGGATCCCGACACCTCCAGCG	CAGTTCCAGGAG 1283
Qy	1424	ATAGTTCAGATGCGCACTTTCTG	TATGCCACACTGCAGATGCTCAT	CTACCAACCGAGAT 1483
Db	1284	ATGATGGGGACTCCATGTTTGT	TGATCCCTGCACTCCAAGTAG	CACATTTTCAGTG---T 1340
Qy	1484	GCCGGCTCTCTGTCTACTCTGT	ATGAAATTTGAGCACCACTGTG	---AATAATCGTC 1540
Db	1341	TCCCGGGCCCTGTGTACTTCT	ACGAGTTCACGATCAGCCAG	CTGGTTCAGAACATC 1400
Qy	1541	AAACCCGCACTGATGGGCGAG	CCATGCGGATGAGATGTACTCT	CTTTTGGGGCCCC 1600
Db	1401	AGGCACCGCACATGAAGCGAC	CACTGTGTGATGAGCTTCC	TTTGTTCAGAAAGTTTC 1460
Qy	1601	TT-----CGCCACAGGCCTTT	CATGGGTAAAGAGAGGCACTT	AGCTCCAGATGATG 1654
Db	1461	TTTGGGGCACTACATTTAAAT	TCACTGAGAAAGAGGAGCAG	CTAAGCAAGATGATG 1520
Qy	1655	AAATACTGGGCAACTTTGCCG	CACAGGAACCCCAATGAGGA	ATCGGAAATCTGCCCTCTGTG 1714
Db	1521	AAGTACTGGGCAACTTTTGC	AGAAATGGGAACCCCAATGG	CAGGGTCTGCCACACTGG 1580
Qy	1715	CCAGCTACCAAGAGTGAAGTA	CTCTGCAGCTGGATTTTACCA	CAAGAGTGGGCAATG 1774
Db	1581	CCGCTGTCGCCAGGAGGCA	ATACCTGCAGCTGAACCT	TACAGCCTGCGTGGGCGG 1640
Qy	1775	AAGCTCAAGGAGAGAA	GATGGCTTTTGGATGA	1808
Db	1641	GCTCTGAAGGCCACAGGCT	CCAGTCTCTGGAAGA	1674

RESULT 5  
US-09-949-016-555  
Sequence 555, Application US/09949016  
Patent No. 6812339  
GENERAL INFORMATION:  
APPLICANT: VENTER, J. Craig et al.  
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
FILE REFERENCE: CL001307  
CURRENT APPLICATION NUMBER: US/09/949,016  
CURRENT FILING DATE: 2000-04-14  
PRIOR APPLICATION NUMBER: 60/241,755  
PRIOR FILING DATE: 2000-10-20  
PRIOR APPLICATION NUMBER: 60/237,768  
PRIOR FILING DATE: 2000-10-03  
PRIOR APPLICATION NUMBER: 60/231,498  
PRIOR FILING DATE: 2000-09-08  
NUMBER OF SEQ ID NOS: 207012  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 555  
LENGTH: 2169



TYPE: DNA  
ORGANISM: Human  
US-09-949-016-555

Query Match 16.1%; Score 319.2; DB 4; Length 2169;  
Best Local Similarity 54.0%; Pred. No. 1.4e-77;  
Matches 828; Conservative 0; Mismatches 643; Indels 63; Gaps 6;

284 CAGATCATGTGGGGAAGACACCCATCCAAAGTCTTTTAGAGTCCCTTCTCCAGACCT 343  
195 CATGTGAAGGGGCCAATGCGGGGTCCAAACCTTCTGGGAATTCATTTGCCAAGCCA 254  
344 CCTCTAGGTATCTCAGTGTTCACCTCCAGAACCCCGAGCCCTGGGAAGGAATCAGA 403  
255 CCTCTAGGTCCGTGCAATTTGACCCCTTGAGCCCTGAATCTTGGAGTGTGTGAGG 314  
404 GATGCTACCACTTACCGCTGGGTGCTTCGAGAGTCTCGGGCCAGCTGGGCTCGATG 463  
315 GATGGAAACCACTATCGGCCATGTGTCTACAGACCTCACCGAGTGGAGTCAGAGTTT 374  
464 TACGTACGACGCGGGAAACGGTACAAAGTGGCTCGCTTACAGGAGGACTGTCTGTACCTG 523  
375 CTTAGCCAGTTCAACATGACTTCTCCCTTCGACTCCCATGTCTGAGGACTGCTGTACCTC 434  
524 AACGTGTACGCGCGGGCGCGCGCGGGATCCCGAGCTGCCAGTGTGTGTGTGTTTC 583  
435 AGCATCTACACGCGGGCCCATAGCCATGAAGGCTCTAACCTGCGGTGATGTGTGTGATC 494  
584 CCGGAGGGCCCTTACGTGGGGCTGTCTTCTGTACGAGGGCTGTGACTTGGCGGCC 643  
495 CAGCGTGGTGGCTTGTCTTGTGGCATGGCTTCTTGTATGATGGTCCATGCTGGGTGCC 554  
644 CGCGAGAAATGTGTGTGTGTCTTCGACACAGGCTCGGCATCTTGGGCTTCTCGAGC 703  
555 TTGGAGAACGTGTGTGTGTGTCTCATCCAGTACCGCTGGGTGTCTTGGGCTTCTCAGC 614  
704 ACGGACGACAGCACCGCGCGGGAACTGGGGGCTGTGTGACAGATGGCGGTCTGCGC 763  
615 ACTGGAGACAAACGACGCAACCGGCACTGGGGCTACCTGGACCAAGTGGGTGCACTACGC 674  
764 TGGGTGCGAGAACATCGACGCTTTCGGGGAGACCCAGGAATCTGACCTGTTCGCG 823  
675 TGGGTGAGAGAAATATCGCCCACTTTGGAGGCAACCCCTGACCGTGTCACTATTTTGGC 734  
824 CAGTCTGGGGGCCATGAGCATCTCAGGACTGATGTACCCCTAGCCTCGGCTCTC 883  
735 GAGTCTGGGGTGGCAGAGTGTCTCTCGTGTGTGTCTCCCATATCCCAAGACTC 794  
884 TTCCATCGGGCCATTTCCAGAGTGGCACCGCTTATTCAGACTTTTTCATCACTAGTAAC 943  
795 TTCCAGGAGCCATCATGGAGAGTGGGTGGCCCTCTGCGCGGCTCATTTGCCAGCTCA 854  
944 CCACTGAAGTGGCAGAGGTTGCCACCTGGCTGGATGCAACCAACAGCACACAG 1003  
855 GCTGATGTATCTCCACGSGTGGGCAACCTGTCTGCTGTGACCAAGTTGACTGTAG 914  
1004 ATCTCTGTAATCTGCTGAGGGCACTATCAGGAGCAAGTGTGATGTGTGTCACCAAG 1063  
915 GCCTGTGGTGGCTGCTGCGG-----GCAAGAGTAAG 948  
1064 ATGAGATTCCTCAACTGAACTTCCAGAGAGACCCGGAAGAGATATCTGGTCCATGAGC 1123  
949 AGGAGATCTTGCATTT-----AACAAAGCTTTCAAGATGATCCCC 989  
1124 CTTGTGGTGTAGTGTGTGTATCCAGATGACCTTTTGGTGTCTCTGACCCAGGGGAAG 1183  
990 GGAAGTGTGTAGTGGGTCTTCTGCGCCAGCACCCCGAGAGTGTGTGGCTCTGCCGAG 1049  
1184 GTTTCATCTGTGCTTACCTTCTAGGTGTCAACAACTGGAATTCATTTGGCTCTTGGCT 1243  
1050 TTTTCAGCCTGTCTCTAGCATTTGTGTGTCAACAAATGAATTCGGGTGGCTCATCCCC 1109  
1244 TATATCATGAAGTTTCCCGTAAACCGCGCGGCGATGAGAAAGGAAACCATCATTAAGATG 1303

1110 AAGTTCATGAGGATCTATGATATCCCAAGAGAAATGACAGAGGGCTCCCAAGGCTGCT 1169  
1304 CTTGTGAGTACCCGACCCCTGTTTGAATATCACCAAGAGAGAGGTACACACTTGTGTGGAG 1363  
1170 CTGCAGAAATGTAACGCTGCTGATGTTGCTCTCTACATTTTGGTGTACCTGCTGAGGAG 1229  
1364 GAGTACCTGGCAATGTCAATGAGCATGACTGGAAGATGTACGAAACCTATGATGAG 1423  
1230 GAGT-----ACATTTGGGACAAATGGGGATCCCGACACCTCCAAAGCGCAGTTCCAGGAG 1283  
1424 ATAGTTCAAGATGCCACTTTTCGTGTATGCCACATGCAGACTGCTCACTACACCCAGAT 1483  
1284 ATAGTGGGAGCTCCATGTTTGTGATCCCTGCACTCAAGTAGCAATTTTCAGTGT---T 1340  
1484 GCCGGCTCTCCCTGTCTACCTGTATGAAATTTGAGCACCAACGCTCGTGTG---AATAATCGTC 1540  
1341 TCCCGGGCCCTGTGTACTTCTACAGATTCAGAGATTCAGCATCAGCCAGCTGGCTCAAGAACATC 1400  
1541 AAACCCCGCAGTGTATGGGCGAGACCATGGGATGAGATGTACTTCTCTTTTGGGGGGCCCC 1600  
1401 AGCCACCCGACATGAAAGGAGCAGACCATGGTGTGATGAGCTTCTTTTGTGTTTTCAGAAGTTC 1460  
1601 TT-----CGCCACAGGCTTTTCCATGGGTAAAGGAGAGCAGCTTAAGCAGGAAGATGATG 1654  
1461 TTTGGGGCAACTACATTAATTTCACTGAGGAAGAGGAGCAGCTTAAGCAGGAAGATGATG 1520  
1655 AAATACTGGGCCAACTTTTCCCGCACAGGAAACCCCAATGATGGGAATCTGCCCTGTCTGG 1714  
1521 AGTACTGGGCCAACTTTTGGAGAAATGGGAATGGGAATGGGAGGCTGTCCACACTGG 1580  
1715 CCACGCTACAAAGAGTAAAGTACCTGCAGCTGGATTTTACCAAGAGTGGGGCATG 1774  
1581 CCGCTGTTCACAGCAGGAGCAATACCTGCAGCTGAACCTACAGCTGCGGTGGGCGCG 1640  
1775 AAGCTCAAGAGAGAGATGGCTTTTGTGATGA 1808  
1641 GCTCTGAAGGCCCAAGGCTCCAGTTCCTGGAAGA 1674

RESULT 6

US-09-595-682B-27  
; Sequence 27, Application US/09595682B  
; Patent No. 6800483  
; GENERAL INFORMATION:  
; APPLICANT: Danks, Mary K.  
; APPLICANT: Potter, Philip M.  
; APPLICANT: Houghton, Peter J.  
; TITLE OF INVENTION: Compositions and Methods for Sensitizing and Inhibiting Growth o  
; FILE REFERENCE: Tumor Cells  
; FILE REFERENCE: SJ-0005  
; CURRENT APPLICATION NUMBER: US/09/595,682B  
; CURRENT FILING DATE: 2000-01-16  
; PRIOR APPLICATION NUMBER: 60/075,258  
; PRIOR FILING DATE: 1998-02-19  
; PRIOR APPLICATION NUMBER: PCT/US99/03171  
; PRIOR FILING DATE: 1999-02-12  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 27  
; LENGTH: 2191  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-595-682B-27

Query Match 16.1%; Score 319.2; DB 4; Length 2191;  
Best Local Similarity 54.0%; Pred. No. 1.4e-77;  
Matches 828; Conservative 0; Mismatches 643; Indels 63; Gaps 6;  
284 CAGATCATGTGGGGAAGACACCCATCCAAAGTCTTTTAGAGTCCCTTCTCCAGACCT 343  
217 CATGTGAAGGGGCCAATGCGGGGTCCAAACCTTCTGGGAATTCATTTGCCAAGCCA 276





QY 725 GGGAACCTGGGGCTGCTGGACAGATGGCGGCTCTGCGTGGTGGAGGAGAACATCGCA 784  
DB 687 GGGAACTGGGCTTCAAGACAGAGTGGCTGCTCTGCTCTGGGTCCAGAGAACATCGAG 746  
QY 785 GCCTTCGGGGAGACCCAGAGAAATGTACCTCTTCGGCCAGTCGGCGGGGCCATGAGC 844  
DB 747 TTCTTCGGTGGGACCCAGCTCTGTGACCATCTTTGGCGAGTCCGCGGAGCCATAAGT 806  
QY 845 ATCTCAGGACTGATGATGATCACCCTAGCTCGGTCTCTTCATCGGGCCATTTCCAG 904  
DB 807 GTTCTAGTCTTATCTGCTCCCATGGCCAAAGGCTTATTCACAAAGCCATCATGGAG 866  
QY 905 AGTGGCACCGCTTATTCAGACTTTTCATCACTAGTAACCCACTGA-----AAGTGGCC 958  
DB 867 AGTGGGTGGCCATCATCCCTTACCTGGAGGCCATGATTATGAGAGAGTGGAGCCTG 926  
QY 959 AAGAAGTTTGCCACCTGGTGGATGCAACCAACAGACAGACAGATCTCTGTGTAAGTGC 1018  
DB 927 CAGGTGGTGCACATTTCTGTGTAAATGCGTCAAGCTCTGAGGCCCTGCTGAGGTGC 986  
QY 1019 CTGAGGCACTATCAGGACCAAGTGTGCTGTCACAAAGATGAGATTCCTCCAA 1078  
DB 987 CTGAGGACAAACCTTCCAAAGAGCTGCTGACCTCAGCCAGAAACAA-----1035  
QY 1079 CTGAATTCAGAGAGACCGGAGAGAGATTATCTGCTCATGAGCCCTGTGGTGGATGT 1138  
DB 1036 -----AGTCTTCTCAGTGGTGGATGT 1061  
QY 1139 GTGGTATCCAGATGACCTTTGGTGTCTGACCCAGGGGAGGTTTCATCTGTCGCC 1198  
DB 1062 GCTTCTTCTTAATGAGCTCTAGATCTATTGTCTCAGAAAGCAATTAAGCAATCTCT 1121  
QY 1199 TACCTTCTAGTGTCAACACCTGGAATTCATTTGGCTCTTGTCTTATATCATGAAGTTC 1258  
DB 1122 TCCATCATGAGTCAATAACCAAGAGTGTGGCTTCTGCTGCTATGAAGAGGCTCT 1181  
QY 1259 CCCTAAACCGGAGCGGATGAGAAAGAAACCATCACTAAGATGCTCTGGAGTACCCCG 1318  
DB 1182 GAGATCTCAGTGGCTTCAACAGTCCCTTGGCTCCATCTGAT-----ACAA 1229  
QY 1319 ACCCTGTGAATATCAAGAGAGAGGTAACACTTGTGGTGGAGAGTACCTGGACAAT 1378  
DB 1230 AACATCTGCACATCCGCTCAGTATTTGACCTTGTGGCTAATGAATACTTCCA-----1285  
QY 1379 GTCAATGAGCATGATGGAAGATGCTACGAAACCGTATGATGACATAGTTCAGATGCC 1438  
DB 1286 --TGAACAAGCATCTCTGAAATCCGAGACAGTCTTCTGACTTGTCTGGAGATGTG 1343  
QY 1439 ACTTTCGTGTATGCCACACTGCAGACTGTCTCACTACACCGAGATCGCGGCTTCCCTGTC 1498  
DB 1344 TTCTTTGTGTCCTGCACTGATCACAGCTCGATATCACAGAGATGCTGTGCACCTGTC 1403  
QY 1499 TACCTGTATGAATTTAGACACACCGCTCGTGGAAATATCGTCAACCCCGCACTGATG-- 1556  
DB 1404 TACTTCTATGATTTTCGGCACCGGCTCAGTGTCTTGAAGACACGAAGCGGGCTTTGTC 1463  
QY 1557 -GGGCAGACCATGGGATGAGATGATCTTCTTTGGGGGCCCTTCGCCACAGGCTT 1615  
DB 1464 AAGGCCACACCTGATGAAGTCCGCTTTGTTTGGTGGTGGCTTCTCTGAAGGGGAC 1523  
QY 1616 T-----CCATGGGTAAAGGAGGACCTTAGCCTCCAGATGATGAATA 1657  
DB 1524 ATTTGTTATGTTCAAGAGGACCGAGGAGGAGAAAGTTACTGAGCCGGAAGATGATGAAA 1583  
QY 1658 TACTGGGCCAATTTTGGCCGACAGGAAACCCCAATGATGGGATCTGCTGCTGGCCA 1717  
DB 1584 TACTGGGCTACCTTTCTCGAACCGGAAATCTTAATGGAAACGACCTGTCTCTGTGGCCA 1643  
QY 1718 CGCTACAAAGGATGAAAGTACCTGCAGCTGATTTTACCAAGAGTGGGCATGAAG 1777  
DB 1644 GCTTATATCTGACTGACAGTACCTCCAGCTGGACTTGAAATGAGCTTCGGACAGAGA 1703

QY 1778 CTCAAGGAGAGAGATGGCTTTTGGATGAG 1809  
DB 1704 CTCAAGAGACCGGGTGGATTTTGGACAG 1735  
RESULT 9  
US-09-949-016-12297  
; Sequence 12297, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 12297  
; LENGTH: 10827  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-12297  
Query Match 10.3%; Score 205; DB 4; Length 10827;  
Best Local Similarity 95.5%; Pred. No. 1e-45;  
Matches 211; Conservative 0; Mismatches 10; Indels 0; Gaps 0;  
QY 18 CGAGGCTCCCGCCCGAGTACTTGTGCGAGGAGTTAAGAGCAGATAAAAGTGTGCTCAC 77  
DB 5046 CAATTCCTCCCGCCCGAGTACTTGTGCGAGGAGTTAAGAGCAGATAAAAGTGTGCTCAC 5105  
QY 78 ACACGTGACACAGCGCTACCATCCATCCACAGTGTGCCATCCACAGTGTGCCATCAC 137  
DB 5106 ACACGTGACACAGCGCTACCATCCATCCACAGTGTGCCATCCACAGTGTGCCATCAC 5165  
QY 138 TCCTGCCACACAGCAGAGCTGCTGGAGCATGAGTGGATTCTGCTGGAGCCTCACCC 197  
DB 5166 TCCTGCCACACAGCAGAGCTGCTGGAGCATGAGTGGATTCTGCTGGAGCCTCACCC 5225  
QY 198 TCTGCTGATGCGCAGACGCGCTTGGGTGCTTGCACACC 238  
DB 5226 TCTGCTGATGCGCAGACGCGCTTGGGTGATGAGACCCCAACC 5266  
RESULT 10  
US-09-810-861B-5  
; Sequence 5, Application US/09810861B  
; Patent No. 6770799  
; GENERAL INFORMATION:  
; APPLICANT: Mor, Tsafir S.  
; APPLICANT: Soreq, Hermona  
; APPLICANT: Arntzen, Charles J.  
; APPLICANT: Mason, Hugh S.  
; TITLE OF INVENTION: EXPRESSION OF RECOMBINANT HUMAN ACETYLCHOLINESTERASE IN  
; TRANSGENIC PLANTS  
; FILE REFERENCE: BTI-45  
; CURRENT APPLICATION NUMBER: US/09/810,861B  
; CURRENT FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/190,440  
; PRIOR FILING DATE: 2000-03-17  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: PatentIn Ver. 3.1  
; SEQ ID NO 5  
; LENGTH: 1725  
; TYPE: DNA  
; ORGANISM: Artificial Sequence

## FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: synthetic  
; OTHER INFORMATION: human acetylcholinesterase gene optimized for  
; OTHER INFORMATION: expression in plants  
US-09-810-861B-5

Query Match 7.5%; Score 148.2; DB 4; Length 1725;  
Best Local Similarity 48.3%; Pred. No. 1.9e-30;  
Matches 680; Conservative 0; Mismatches 693; Indels 36; Gaps 8;  
QY 305 CCATCCAAAGTCTTTTAGAGTCCCTCTCTCAGACCTCTCTCTAGTATCTCTCAGGTTT 364  
DB 175 CTTGCTCTGCTTCTCTGGCATCCCTTTTGGGAGCCACCAATGAGCCCTCGCTTT 234  
QY 365 GCACCTCCAGAACCCCGGAGCCCTGGAAGGAATCAGAGATCTACCACTACCGCCCT 424  
DB 235 CTGCCACCGGAGCCCAAGCAGCTTGTCTAGGGGTGTAGACGCTCAACCTTCCAGAGT 294  
QY 425 GGTGCTCTGAGAGTCTCTGGGCGCAGCTGGCTCTGATGTACTGACGCGGGGAACGG 484  
DB 295 GTCTGTACCAATATGT---GGACACCTTATACCCAGGTTTGGAGGCGCACCGAGATGTG 351  
QY 485 TACAAGTGGCTGGCTTTCAGCAGGAGTGTCTGTACTGAACTGTACGCGCGCGCGCG 544  
DB 352 AACCCCAACCGTGAGCTGAGCGAGGACTGCTCTACTCTACCTGATGTGACACCATACCCC 411  
QY 545 GCGCCCGGGGATCCCGAGCTGCCAGTGTCTGTTTCCCGGAGCGCTTTCATCTG 604  
DB 412 CGGCC---TACATCCCCACCCCTGCTCTGCTGTGATCTATGGGGTGGCTTCTACAGT 468  
QY 605 GGGCTGTCTTCTT---CGTAGAGGGCTCTGACCTTGGCCCGCCCGGAGAAAGTGGTG 658  
DB 469 GGGGCTCTCTCTCTGACGCTGTACGATGGCGCTTCTTGTGTACAGGCGGAGAGAGTGTG 528  
QY 659 CTGGTCTTTCTGACGACAGCTCGGCATCTTCTGGCTTCTGAGCAGCGACGACGCC-- 716  
DB 529 CTGGTGTCAATGAATACCGGGTGGGAGCTTTGGCTTCTTGGCCCTGCGGGGAGCCGA 588  
QY 717 -ACGCGCGGGGAACTGGGGCTGTCTGGACAGATGGCGCTCTGGCGTGGGTGACAGAG 775  
DB 589 GAGGCCCCGGCAATGTGGTCTCTCTGATCAGAGGCTGGCCCTGAGTGGGTGACAGAG 648  
QY 776 AACATCGAGCTTTCGGGGAGACCCAGGAAATGTGACCTCTGTTCGGCCAGTCTGGCGGG 835  
DB 649 AACTGGCAGCTTTCGGGGTGTACCCGACATCAGTCACTGTCTGGGAGAGCGCGGGA 708  
QY 836 GCATGAGCATCTCAGGATGATGTACCCCTAGCTCGGGTCTCTTCCATCGGGCC 895  
DB 709 GCGGCTCGGTGGGATGACCTGTCTCCCGCCAGCGGGGCTGTCTCAGAGGGCC 768  
QY 896 ATTTCACAGATGG-----CACCGGTATTACAGACTTTTCACTACTAGTAACCCACTG 949  
DB 769 GTGCTGAGCGGTGCCCCCATATGACCTGGGCCACCGTGGGCATGGGAGGGCCCTG 828  
QY 950 AAGTGCCCAAGAGTGTCCCACTGCTGGATGCAACCAACAGCAGACAGATCTCTG 1009  
DB 829 CGCAGGGCCAGCAGCTGGCCCACTTGTGGGCTGTCTCAGCGCGCACTGGTGGGAAT 888  
QY 1010 GTAACCTGCTGAGGCACTATCAGGCAACAGGTGTGTGTGTGTGTGTGTGTGTGTGT 1069  
DB 889 GACACAGAGCTGT 941  
QY 1070 TTCTCCCACTGAATCTCAGAGAGACCCGGAAGAGATATTCTGTGCTCATGAGCCCTGTG 1129  
DB 942 --CCAGATGGCAGCTGTGCTCTCAGAAAGCTTCTCGGTTCTCTCTGCTGCTGTG 999  
QY 1130 GTGGATGGT 1189  
DB 1000 GTAGATGGAGACTTCTCTAGTGTACCCAGAGGCTCTATCAACCGGAGACTTCCAC 1059  
QY 1190 TCTGTGCCCTTACTTCTAGTGTCAACAGCTGGAAATTCATTTGGCTCTTGTCTTATATC 1249  
DB 1060 GGCCTGCAAGT 1119

QY 1250 ATGAAGTTCCCGCTAAACCGGCGAGCGATGAGAAAGAAACCATCACTAGATGCTCTGG 1309  
DB 1120 GCCCAGGGCTTCAGCAAGACCAACAGAGTCTCTCATCAGCGCGGCGAGTTCTCTGGCGGG 1179  
QY 1310 AGTACCCGCAACCTGTTGAATATACCAAGGAGCAGGTACCACTTGTGTGGAGGAGTAC 1369  
DB 1180 GTGCGGGTCCGGGTCTCCCGAGGTAAAGTACCTTGGCAGCGAGGCTGTGGTCTTGCATTAC 1239  
QY 1370 CTGGACAATGTCAATCAGCATGACTGGAAGATCTACGAAACCGTATGATGGACATAGTT 1429  
DB 1240 ACAGACTGGCTGATCCCGAGGACCCGCGCTGAGGGAGGCCCTGAGCGATGTGTG 1299  
QY 1430 CAAGATGCCACTTCTGTATGCGCACACTGCGAGATGCTCATCAACCGAGATGCCGCG 1489  
DB 1300 GCGCAGCAAAATGTCTGTGCGCGGTGGCGCAGCTGGCTGGCGCATGTGGCTGCCAGGGT 1359  
QY 1490 CTCCTCTGTCTACTGTATGAAATTTGAGCACCAGCTCGTGGAAATAATCGTCAAAACCCCGC 1549  
DB 1360 GCCCGGGTCTACGCTTACGCTTTTGAACACCGTGC---TTCACGCTCTCTCGGCCCTG 1416  
QY 1550 ACTGATGGGCGCAGACCATGGGATGAGATGTACTTCTTTGGGGGCCCTT---CGCC 1606  
DB 1417 TGGATGGGGTGGCCCAACCGCTACGAGATCGAGTTCATCTTTGGGATCCCTTGGACCCC 1476  
QY 1607 ACAGGCTTTTCCATGGGTAAAGAGAGAGGCACTTAGCTCCAGATGATGAATAACTGGGCC 1666  
DB 1477 TCTCGAAATACACGCGAGAGAGAAATCTTCGCCAGCGACTGATGCGATACTGGGCC 1536  
QY 1667 AACTTGGCGCACAGGAAACCCCAATGA 1695  
DB 1537 AACTTTGCCCGCACAGGGGATCCCAATGA 1565

## RESULT 11

US-07-732-962A-1  
; Sequence 1, Application US/07732962A  
; Patent No. 5248604  
; GENERAL INFORMATION:  
; APPLICANT: Fischer, Meir  
; TITLE OF INVENTION: EXPRESSION OF ENZYMATICALLY ACTIVE  
; TITLE OF INVENTION: RECOMBINANT HUMAN ACETYLCHOLINESTERASE  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: John P. White, Esq.  
; STREET: 30 Rockefeller Plaza  
; CITY: New York  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 10112  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/732,962A  
; FILING DATE: 19910722  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: White, John P.  
; REGISTRATION NUMBER: 28,678  
; REFERENCE/DOCKET NUMBER: 39304/JPW/LSW  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 977-9550  
; TELEFAX: (212) 664-0525  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1845 base pairs  
; TYPE: NUCLEIC ACID  
; STRANDEDNESS: single  
; TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..1842  
US-07-732-962A-1

Query Match 7.5%; Score 148.2; DB 1; Length 1845;  
Best Local Similarity 48.3%; Pred. No. 1.9e-30;  
Matches 680; Conservative 0; Mismatches 693; Indels 36; Gaps 8;

QY 305 CCATCCAAAGTCTTTTAGAGTCCCTTCTCAGACCTCTCTTAGTATCTCAGGTTT 364  
DB 175 CTGTCTCTGTTCTCTGGCATCCCTTTGGAGCCACCCATGGACCCCGTGCCTTT 234  
QY 365 GCACCTCCAGAACCCCGGAGCCCTCGAAAGGAATCAGAGATGCTTACCACTTACCGGCT 424  
DB 235 CTGCCACCGAGCCCAAGCAGCCCTTGTCTAGGGGTGTAGACGCTACAACTTCCAGAGT 294  
QY 425 GGTGTCTGAGAGGTCCTGGGCGCAGCTGGCTCGATGCTACGACGCGGGAACG 484  
DB 295 GTCTGTACCAATATGT---GGACACCTATATACCCAGGTTTGGGGCACCGAGATGTG 351  
QY 485 TACAAGTGGCTGGCTTACCGAGGACTGTCTTACTGAACTGTACGCGCGCGCGC 544  
DB 352 AACCCCAACGCTGAGCTGAGCGAGGACTGCTGTACTCTCACTGTGGACACCATACCC 411  
QY 545 GCGCCCGGGGATCCCAAGTGCAGTGATGCTGTGTTCCGGGAGCGCTTTCATGTTG 604  
DB 412 CGGCC---TACATCCCCACCCCTCTCTGTCTGTGATCTATGGGGTGTCTTACAGT 468  
QY 605 GCGCTGCTCTT-----CGTAGAGGCTCTGACTTGGCCCGCGAGAAAGTGTG 658  
DB 469 GGGGCTCTCTCTTGAACGTGTGACGTGCGCGCTTCTTGTGACAGCGCGAGAGCTGTG 528  
QY 659 CTGTGTTTCTGACACAGCTCGGCATCTTCCGGCTTCTGAGACGACACAGCC-- 716  
DB 529 CTGTGTTCATGAATACCGGGTGGAGCTTTGGCTTCTTGGCCCTGCGGGGAGCGGA 588  
QY 717 -ACGCGCGGGAACTGGGGGCTGTGGACAGATGGCGCTCTGGCTGGTGGAGGAG 775  
DB 589 GAGGCCCGGGCAATGTGGTCTCTGATCAGAGGCTGGCCCTGCACTGGTGGTGGAGG 648  
QY 776 AACATCGAGCTTCGGGGGAGACCCAGGAATGTGACCTGTTCGCCAGTGGCGGGG 835  
DB 649 AAGTGGAGCTTCGGGGGTGACCCGACATCAGTGTGCTGTGGGAGAGCGCGGA 708  
QY 836 GCAATGAGCATCTCAGGACTGATGTACCCCTAGCCTCGGCTCTTCCATCGGGCC 895  
DB 709 GCGGCTCGGTGGCATGCACTGTCTCCCGCCAGCGGGGCTGTTCACAGGGCC 768  
QY 896 ATTTCCAGAGTGG-----CACCGCTTATTCAGACTTTTATCATCTAGTAAACCACTG 949  
DB 769 GTGTGACAGAGCGGTGCGCCCAATGACCTCTGGGCCACGCTGGGATGGAGAGCGCCGT 828  
QY 950 AAGTGGCCAGAGGTTGCCACCTGCTGGATGCAACACACACACACACACAGATCCTG 1009  
DB 829 GCGAGGCGCAGCAGCTGGGCCACCTTGTGGCTGTCTCTCAGCGGCACTGTGGGAAT 888  
QY 1010 GTAACTGCTGAGGGCACTATCAGGGACCAAGGTGATGCTGTGTCCAAACAAGATGAGA 1069  
DB 889 GACACAGAGCTGTGTAGCTGCTTCCGACACGACGACGAGGCTCTGTGTAA----- 941  
QY 1070 TTCTTCCAACTGAACTTCCAGAGAGACCGGGAAGAGATTATCTGGTCCATGAGCCCTGTG 1129  
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DB 1000 GTAGATGAGACTTCTCTCAGTGACACCCAGAGGCGCTCTCAACGCGGAGACTTCCAC 1059  
QY 1190 TCTGTGCCCTTCTTCTAGGTGTCAACAACTGGAATTCAAATGGCTCTTGCCTTATATC 1249  
DB 1060 GGCCTGCAAGTGTGTTGGTGTGTGTAAGGATGAGGCTCGTATTTTCTGTTTACGGG 1119

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QY 1310 AGTACCCCGCACCCCTGTTGAATATCAACAAAGAGCAGGTACCACTTTGTGGTGGAGGATAC 1369  
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QY 1430 CAAGATGCCACTTTCGTGTATGCCACACTGACAGACTGTCTACTACACGAGATGCCGCG 1489  
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QY 1490 CTCCCTGTCTACTCTGTATGAATTTGAGCACCAAGTGTGGGAATATGTTCAACCCCGC 1549  
DB 1360 GCCCGGCTTACGCTGTCTTGAACACCGTGC---TTCCACGCTCTCTCTGGGCCCTG 1416  
QY 1550 ACTGATGGGCGACACATGGGATGAGATGACTTCTCTTTGGGGGCGCCCTT---CGCC 1606  
DB 1417 TGGATGGGGGTGCCCAACGCTTACGAGATCGAGTTCACTTTGGGATCCCTCTGAGCC 1476  
QY 1607 ACAGGCTTTCATGGTAAAGGAGAGGCACTTAGCCTCCAGATGATGAAATCTGGGCC 1666  
DB 1477 TCTGAAACTACACGCGAGAGGAGAAATCTTCGCCAGCGACTGATGCGTACTGGGCC 1536  
QY 1667 AACTTTGCCCGCACAGGAAACCCCAATGA 1695  
DB 1537 AACTTTGCCCGCACAGGAGATCCCAATGA 1565

RESULT 12  
PCT-US92-06106-1  
; Sequence 1, Application PC/TUS9206106  
; GENERAL INFORMATION:  
; APPLICANT: Fischer, Meir  
; TITLE OF INVENTION: ENZYMATICALLY ACTIVE RECOMBINANT HUMAN  
; TITLE OF INVENTION: ACETYLCHOLINESTERASE AND USES THEREOF  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: John P. White, Esq.  
; STREET: 30 Rockefeller Plaza  
; CITY: New York  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 10112  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US92/06106  
; FILING DATE: 19920722  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: White, John P.  
; REGISTRATION NUMBER: 28,678  
; REFERENCE/DOCKET NUMBER: 39304-B-PCT/JPW/EAB  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 977-9550  
; TELEFAX: (212) 664-0525  
; TELEX: 422523 COOP UI  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1845 base pairs  
; TYPE: NUCLEIC ACID  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)



FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..1842  
PCT-US92-06106-1

Query Match 7.5%; Score 148.2; DB 5; Length 1845;  
Best Local Similarity 48.3%; Pred. No. 1.1e-30; Indels 36; Gaps 8;  
Matches 680; Conservative 0; Mismatches 693

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QY 305 CCATCAAGTCTTTTAGGAGTCCCTTCTCCAGACCTCTCTAGTATCTCTCAGTTT 364
DB 175 CTTGCTCTGCTTCTGCGCATCCCTTTGCGGAGCACCCATGGACCCCGTCTTT 234
QY 365 GCACCTCCAGAACCCCGGAGCCCTGGAAGGAATCAGAGATGCTACACCTACCCGCT 424
DB 235 CTGCCACCGGAGCCCAAGCAGCCCTTGGTCAGGGGTGTAGACGCTCAACCTTCCAGAGT 294
QY 425 GGTGTGCTGCAGGAGTCTGGGGCCAGCTGGCTCGATGTACGTACGACGCGGGAAACG 484
DB 295 GTCTGTACCAATATGT---GGACACCTATACCCAGGTTTGAAGGACCGAGATGTGG 351
QY 485 TACAAGTGGCTGCGCTTCAGCGAGGACTGTCTGTACTGAACGTGTACGCGCGGCGCG 544
DB 352 AACCCCAACCGTGAGCTGAGCGAGGACTGCTGTACTCAACGTGTGGACACCATACCC 411
QY 545 GCGCGCGGAGTCCCGACGTCGACGTGATGCTGTCTGTTCCCGGAGCGCTTTCATCGTG 604
DB 412 CGGCC---TACATCCCGCCACCCCTGCTGCTGTGATCTATGGGGGTGCTTCTACAGT 468
QY 605 GCGCTGCTCTCT---CGTACGAGGGCTCTGACTTGGCGCGCCCGCAGGAAGTGTG 658
DB 469 GGGGCTCTCTCTGGAAGTGTACGATGGCGGCTTCTTGGTACAGCGCGAGAGACTGTG 528
QY 659 CTGGTCTTTCTGCAGCACAGGCTCGGCATCTTCGGCTTCTGAGCAGGACGACAGCC-- 716
DB 529 CTGTGTCTCATGAATCTACCGGTGGAGCTTTGGCTTCTTGCCCTGCGGGAGACCGA 588
QY 717 -ACGCGCGCGGGAATCTGGGGCTGTGTGACAGATGGCGGCTCTGCGTGGGTGCGAGG 775
DB 589 GAGGCGCGGGCAATGTGGTCTCTCTGTGTGATCAGAGCTGCGCTGCAAGTGGGTGCGAGG 648
QY 776 AACATCGAGCTTTCGGGGAGACCCAGGAATGTACACCTGTTCGCCAGTCCGCGGG 835
DB 649 AACGTGGACCTTTCGGGGGTGACCCGACATCATGATGACGTGTTCGGGAGAGCGCGGA 708
QY 836 GCATGAGCATCTCAGACTGTATGTACCCCTAGCCTCGGCTCTTCCATCGGCG 895
DB 709 GCGGCTCGGTGGCATGACCTGCTGTCCCCCGCCAGCGGGGCTGTTCACAGGGCC 768
QY 896 ATTTCCAGAGTGG-----CACCGGTTATTACAGACTTTTCATCACTAGTAACCCATG 949
DB 769 GTGCTGCAGAGCGGTGCCCAATGTACCCCTGGGCCACGCTGGGCTGCGAGAGGCCCT 828
QY 950 AAGTGGCCAGAGAGTTCGCCACCTGGCTGGATGCAACCAACAGCACACAGATCTCTG 1009
DB 829 CGAGGGCCACGAGCTGGCCACCTGTGTGGCTGTCTCCAGCGGCACTGGTGGGAAT 888
QY 1010 GTAACTGCTGAGGCACTATCAGGACCAAGGTGATGCTGTGTCAACAGATGAGA 1069
DB 889 GACACAGAGTGTAGCTCTGCTTCGACACGACGAGCGGCTCTGTGTGA-----941
QY 1070 TTCTTCCAACTGAATTCAGAGAGACCCGGGAAGAGATATTCTGGTCCATGAGCCCTGTG 1129
DB 942 --CCAGAAATGGCACTGCTGCTCAAGAAAGGCTCTTCGGGTCTCTCTTGTGCTGTG 999
QY 1130 GTGGATGGTGTGTATCCAGATGACCTTTGGTGTCTCTGACCCAGGGGAGGTTTCA 1189
DB 1000 GTAGATGGAGACTTCTCAGTGTACACCCAGAGGCCCTCATCAACCGGGAGACTTCCAC 1059
QY 1190 TCTGTGCCCTTACCTTCTAGTGTCAACACCTCGAATTCAATTGGGCTTGTGCTTATATC 1249
DB 1060 GGCCTGAGGTGCTGTGGGTGTGGTGAAGGATGAGGGCTCTGTATTCTTGTGTTACGGG 1119
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QY 1250 ATGAGTTCCCGCTAAACCGGAGCGATGAGAAAGAAACCATCACTAAGATGCTCTGG 1309
DB 1120 GCCCAGGCTTCAGCAAGACAAACGAGTCTCTCATCAGCGCGGCCGAGTTCTTGGCGGG 1179
QY 1310 AGTACCGCAGACCTGTTGAATATACCAAGGACAGGTACCACTTGTGGTGGAGGAGTAC 1369
DB 1180 GTGGGGTGGGTTCCCGAGTAACTGAGTACCTGGAGCGGAGGCTGTGGTCTGCTTAC 1239
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DB 1240 ACAGACTGGCTGATCCCGAGGACCCGCAAGCTGAGGGAGGCCCTTGAAGCATGTGGTG 1299
QY 1430 CAAGATGCCACTTCTGTGTATGCCACACTGCAAGTCTCACTACCAACGAGATGCCGC 1489
DB 1300 GGCGACCAAAATGTCTGTGTGCCCGTGGCCAGCTGGTGGGCACTGGCTGCCAGGGT 1359
QY 1490 CTCCTGTCTACCTGTATGAATTTGAGCACCAAGCTCGTGAATAATCGTCAAAACCCCGC 1549
DB 1360 GCGCGGCTCTACGCTTCTTTGAACACCGTGC---TTCCAGCTCTCTCTGGCCCTG 1416
QY 1550 ACTGATGGGCGACACATGGGATGAGATGTAATCTCTCTTTTGGGGGCCCTT---CGCC 1606
DB 1417 TGGATGGGGTGGCCCAAGCTACGAGTCAAGTTCATCTTTGGGATCCCTCGACCCC 1476
QY 1607 ACAGGCTTTCATGGTAAAGGAGGCACTTAGCTCCAGATGATGAATACTCGGCC 1666
DB 1477 TCTGAAACTACACGCGAGGAGAAATCTTCGCCAGCACTGATGCGATCTGGGCC 1536
QY 1667 AACTTGGCCGACAGGAAACCCCAATGA 1695
DB 1537 AACTTGGCCGACAGGGGATCCCAATGA 1565
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## RESULT 13

US-09-949-016-1192  
; Sequence 1192, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; PRIOR FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1192  
; LENGTH: 2158  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-1192

Query Match 7.5%; Score 148.2; DB 4; Length 2158;  
Best Local Similarity 48.3%; Pred. No. 2.1e-30; Indels 36; Gaps 8;  
Matches 680; Conservative 0; Mismatches 693

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QY 305 CCATCAAGTCTTTTAGGAGTCCCTTCTCCAGACCTCTCTAGTATCTCTCAGTTT 364
DB 269 CTTGCTCTGCTTCTGCGCATCCCTTTTGGGAGCCACCCATGGACCCCGTCTGTT 328
QY 365 GCACCTCCAGAAACCCCGGAGCCCTGGAAGGAATCAGAGATGCTACACCTACCCGCT 424
DB 329 CTGCCACCGGAGCCCAAGCAGCCCTTGGTCAGGGGTGTAGACGCTCAACCTTCCAGAGT 388
QY 425 GGTGTGCTCAGGAGTCTTGGGGCCAGCTGGCTCGATGCTAGCTAGCAGCGGGAACG 484
DB 389 GTCTGCTACCAATATGT---GGACACCTATACCCAGGTTTGAAGGGCCACCGAGATGTGG 445
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485 TACAAGTGGCTGGCTTACGAGGAGTGTCTGTACTGAACGTGTACGCGCGCGCGC 544  
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446 AACCCCAACGCTAGCTGAGCGAGGAGTGTCTGTACTCACTGAGTGTGGACACCATACCC 505  
QY |||||  
545 GCGCCCGGGGATCCCGAGCTGCCAGTGTGCTGTCTGCTTCCCGGAGCGCTTTCATCGTG 604  
Db |||||  
506 CGGCC---TACATCCCCCACCCTGTCTGTCTGGATCTATGGGGTGGCTTCTACAGT 562  
QY |||||  
605 GCGCTGTCTTCTT-----CGTACGAGGCTGTGACTTGGCCCGCCCGGAGAAAGTGGTG 658  
Db |||||  
563 GGGGCTCTCTCTTGGACGTGTACGATGGCGCTTCTTGTGTACAGCGCGAGAGAGTGTG 622  
QY |||||  
659 CTGGTGTCTGTGACGACAGCTCGCATCTTGGCTTCTGTGATGTGACGACGACGACGCC-- 716  
Db |||||  
623 CTGGTGTCTGATGATACCGGGTGGAGCTTGTGGCTTCTTGGCCCTGCGGGAGCCGGA 682  
QY |||||  
717 -ACGCGCGCGGAACTGGGGCTGTGACCATGCGCGCTCTGCGCTGGGTGCGAGGAG 775  
Db |||||  
683 GAGGCCCGGGCAATGTGGTCTCTGTGATCAGAGCTGGCCCTGAGTGGGTGCGAGGAG 742  
QY |||||  
776 AACATCGAGCTTTCGGGGAGACCCAGAGAAATGTGACCTGTGTGCGGCAGTGGCGGGG 835  
Db |||||  
743 AACGTGGCAGCTTTCGGGGTGAACCGGACATCAGTGCAGCTGTGTGGGAGAGCGCGGA 802  
QY |||||  
836 GGCATGAGCATCTCAGGACGTGATGATGTACCCCTAGCTCGGTCTCTTCCATCGGGC 895  
Db |||||  
803 GCGGCTCGGTGGGCATGTACCTGTGTCCCGCCCGAGCGGGGCTGTGTCCACAGGGC 862  
QY |||||  
896 ATTTCCACAGTGG-----CACGGGTATTTCAGACTTTTTCATCTACTAGTAAACCACTG 949  
Db |||||  
863 GTGCTGACAGCGGTGCCCAATGACCTGGGCCACGCTGGGCATGGGAGGCGCCGT 922  
QY |||||  
950 AAGTGCCCAAGAGGTGCGCACTGGCTGTGATGCAACCAACAGACACAGATCTCTG 1009  
Db |||||  
923 CGCAGGCGCACGAGCTGGCCCACTTGTGGGCTGTCTCCAGGCGGCACGTGTGGGAAT 982  
QY |||||  
1010 GTAACTGCTGAGGCACTATCAGGACCAAGGTGTGTGTGTGTCACCAAGATGAGA 1069  
Db |||||  
983 GACACAGAGCTGTAGCTGCTTCCGACACGACGAGCGAGTCTCTGTGAA----- 1035  
QY |||||  
1070 TTCTCCAACTGAATTCAGAGAGACCCGGAAGAGATTTCTGTTCATGAGCCCTGTG 1129  
Db |||||  
1036 --CCAGATGGCAGCTGTGCTCAAGAAAGGTCTTCCGGTCTCTCTTGTGCTGTG 1093  
QY |||||  
1130 GTGATGTGTGTGATCCAGATGACCTTTGGTGTCTGTGACCCAGGAGGAGTTTCA 1189  
Db |||||  
1094 GTAGATGGAGACTTCTCAGTGAACCCAGAGGCGCTCATCAACGCGGAGACTTCCAC 1153  
QY |||||  
1190 TCTGTGCTTACCTTCTAGGTGTCAACACTGGAATTCAAATTGGCTTGTGCTTATATC 1249  
Db |||||  
1154 GGCCTGAGAGTGTGTGGTGTGTGAGGATGAGGCTGTGTATTTCTGTGTTACGGG 1213  
QY |||||  
1250 ATGAAGTTCCTGCTAAACCGGAGGCGATGAGAAAGGAAACCATCACTAAGATGCTCTG 1309  
Db |||||  
1214 GCGCCAGGCTTACGAAAGACAGAGTCTCTCATCAGCGCGGCGAGTTCTTGGCGGG 1273  
QY |||||  
1310 AGTACCGGACCTTGTGATATACAGAGGACAGTACCATTTGTGTGGAGGAGTAC 1369  
Db |||||  
1274 GTGCGGCTCGGGGTTCCTCCAGGTAAGTGAACCTGGCAGCGGAGGCTGTGTCTGTCA 1333  
QY |||||  
1370 CTGGACAAATGTCAATGAGCATGACTGGAAGTCTACGAAACCGTATGATGACATAGT 1429  
Db |||||  
1334 ACAGATGGCTGTATCCCGAGGACCGGACGCTGAGGGAGCGCTGACGATGTGGTG 1393  
QY |||||  
1430 CAAGATGCCCACTTTCGTGTATGCCACATGACAGTGTCTACATACCACCGAGATGCCGC 1489  
Db |||||  
1394 GGGACCAAAATGTGTGTGTCGCCCGTGGCCAGCTGTGGGAGTGTGGCTGCCAGGT 1453  
QY |||||  
1490 CTCCTGTCTACTGTATGAAATTTAGCACCAAGCTGTGTGGATATATCTCAACCCCGC 1549  
Db |||||  
1454 GCGCGGCTCTACGCTTCTTGAACACCGGTG---TTCCACGCTCTCTTGGCGCCCTG 1510

QY 1550 ACTGATGGGCGAGACCATGGGATGAGATGTACTTCTTTGGGGGCCCTT---CGCC 1606  
Db |||||  
1511 TGGATGGGGTGTCCCAACGCTACGAGTCACTTCTTTGGATCCCTTGGACCCC 1570  
QY 1607 ACAGGCTTTTCATGGTGAAGAGGACCTTAGCTTCCAGATGATGAAATCTGGGCC 1666  
Db |||||  
1571 TCTCGAAACTACACGCGAGGAGAAATCTTGGCCAGCGATGATGCGATACTGGGC 1630  
QY 1667 AACTTTGCCCGCACAGGAACCCCAATGA 1695  
Db |||||  
1631 AACTTTGCCCGCACAGGGGATCCCAATGA 1659

## RESULT 14

US-09-949-016-1193  
; Sequence 1193, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; PRIOR FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1193  
; LENGTH: 2158  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-1193

Query Match 7.5%; Score 148.2; DB 4; Length 2158;

Best Local Similarity 48.3%; Pred. No. 2.1e-30; Indels 36; Gaps 8;  
Matches 680; Conservative 0; Mismatches 693;

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Db |||||  
269 CTGTCTCTGCTTCTTGGGTCATCCCTTTTGGGAGCCACCCATGGGACCCCTGCTTT 328  
QY 365 GCACCTTCAGAACCCCGGAGCCCTGGAAGAAATCAGAGATGTACCACTACCGCCT 424  
Db |||||  
329 CTGCCACCGGAGCCCAAGCAGCCTTGGTCAGGGGTGTAGACGCTACAACTTCCAGAT 388  
QY 425 GGGTGCCTGACGAGTCTTGGGGCCAGCTGGCTCGATGATGATGATGATGATGATGAT 484  
Db |||||  
389 GTCTGTCTACATATGT---GGACACCTATACCCAGGTTTGGGGGACCCAGATGTGG 445  
QY 485 TACAAGTGGCTCGCTTTCAGCGAGGACTGTCTGTACTCTGAACGTGTACGCGCGCGC 544  
Db |||||  
446 AACCCCAACCGTGTGAGCTGAGCGAGGACTGCTTCACTCAACGTGTGAGCACCATACCC 505  
QY 545 GCGCGCGGGGATCCCGAGCTGCGAGTGTGTGTTCCCGGAGGCGCTTCTATCTGTG 604  
Db |||||  
506 CGGCC---TACATCCCGCCACCCCTGTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 562  
QY 605 GCGCTGTCTTCTT-----CGTACGAGGCTCTGACTTGGCGCGCCCGCGAGAAAGTGTG 658  
Db |||||  
563 GGGGCTCTCTCTTGTGAAGTGTACATGGCCCTTCTTGTGTACAGGCGAGGAGTGTG 622  
QY 659 CTGTGTGTCTTCAGCACAGGCTCGGCATCTTTCGGCTTCTTCAGCACGAGACGCC-- 716  
Db |||||  
623 CTGTGTGTCTTCACTACCTACCGGTGTGGAGCTTGTGCTTCTTGGCGCTTGTGCGGAGCCGA 682  
QY 717 -ACGCGCGGCGGAACTGGGGGCTGTGACAGATGGCGCTCTGCGCTGGGTGCGAGGAG 775  
Db |||||  
683 GAGGCGCGGCGCAATGTGGGTCTCTTGGATCAGAGGCTGCGCTTGTGAGTGGGTGCGAGG 742



Job time : 349 secs

Db	688	CTGGTGTCCATGAATACCGGGTGGGAGCCTTTGGCTTCTCGGCCCTGCGGGAGCCGA	747
Qy	717	-ACGCGGCGGGAACCTGGGGGCTGCTGGACCATGATGCGGCTCTGCGTGGGTGCGAGGAG	775
Db	748	GAGGCCCGGGCAATGTGGGTCTCTGGATTCAGAGGCTGGCCCTGCGATGGGTGCGAGGAG	807
Qy	776	AACATCGCAGCCTTCGGGGGAGACCAGGAAATGTGACCCTGTTCGGGCCAGTCGGCGGG	835
Db	808	AACTGGCAGCCTTCGGGGGTGACCCGACATCAGTGCCTGTTTCGGGAGAGCGCGGA	867
Qy	836	GCCATGAGCATCTCAGGACTGATGTCAACCCCTAGCCTCGGGTCTCTTCATCGGGCC	895
Db	868	GCCGCTCGGTGGGCATGCACCTGCTGCCCGCCAGCGGGGCTGTTCACAGGGCC	927
Qy	896	ATTTCACAGTGG-----CACGGGTATTACAGACTTTTCATCACTAGTAACCCACTG	949
Db	928	GTGCTGAGAGCGGTGCCCCAATGAGACCCTGGGCCACGGTGGGCATGGGAGGGCCCTG	987
Qy	950	AAAGTGGCCAAAGAGTTGCCACCTGGCTGGATGCAACCAACACGACACACAGATCTCTG	1009
Db	988	CGCAGGGCCACGAGCTGGCCCACTTGTGGCTGTCTCTCAGGCGGCACTGGTGGGAAT	1047
Qy	1010	GTAACTGCTTGAGGCACTATCAGGACCAAGGTGATGCGTGTGTCTCAACAGATGAGA	1069
Db	1048	GACACAGAGCTGTAGCTGCTCTTCGGACACGACGCGAGCTCTCTGGTGA-----	1100
Qy	1070	TTCTCTCAACTGGAACCTTCAGAGAGACCCGGAGAGATTATCTGTGCCATGAGCCCTGTG	1129
Db	1101	--CACGAATGGCAGTGCTGCTCAAGAAAGCTTTCGGTCTCTCTGCTGCTCTGTG	1158
Qy	1130	GTGATGGTGTGGTGATCCAGATGACCTTTGGTGTCTCTGACCCAGGGGAAGTTTCA	1189
Db	1159	GTAGTGGAGACTTCTCTCAGTGCACCCAGAGGCCCTCATCAACGCGGAGACTTCCAC	1218
Qy	1190	TCTGTGCCCTACCTTCTAGTGTCAACAACTGGATTCAAATTGGCTCTTGCCTTATATC	1249
Db	1219	GGCTGCAAGTGTGTGGTGTGGTGAAGGATGAGGGCTCGTATTCTTGGTTTACGGG	1278
Qy	1250	ATGAAGTTCCGCTAAACCGCGAGGCGATGAGAAAGGAAACCATCACTAAGATGCTCTGG	1309
Db	1279	GCCCCAGGCTTCAGCAAGAACAACGATCTCTCATCAGCGGGCGAGTTCTCGCCGGG	1338
Qy	1310	AGTACCGCACCTTGTTGAATATCAACAGGAGCAGGTACAACCTTGTGTGGAGGAGTAC	1369
Db	1339	GTGCGGTGCGGGTTCGCCAGTTCCAGTGAAGTGAAGCTGCGACCGAGGCTGTGGTCTT	1398
Qy	1370	CTGAGCAATGTCAATGACATGACTGAGAAAGTGTACGAACCCGTATGATGGACATAGTT	1429
Db	1399	ACAGACTGGCTGCACTCCGAGGACCCGGCACGCTGAGGGAGGCCCTTGACGGATGTGGT	1458
Qy	1430	CAAGATGCCACTTTCTGTGTATGCCACACTGCAGACTGCTCACTACCAACCCAGATGCCGC	1489
Db	1459	GGCGAACCAATGTCTGTGCCCCGTGGCCAGCTGGCTGGCGAGCTGGCTGCCAGGT	1518
Qy	1490	CTCCCTGTCTACTGTATGAAATTTGAGCAACACGCTCGTGGAAATATCGTCAAAACCCGC	1549
Db	1519	GCCCGGTGTACGCTACTCGTCTTTTGAACACCGTGC---TTCCAGCTCTCTCTGGCCCC	1575
Qy	1550	ACTGATGGGGCAGACCATGGGGATGAGATGTACTTCTTTGGGGGCCCTT---CGCC	1606
Db	1576	TGSAATGGGGTGCCTCCAGGCTACGAGATGAGTTTCTTTGGGATCCCTCTGGACCCC	1635
Qy	1607	ACAGGCTTTTCCATGGGTAAAGGAAGGCACTTAGCTCTCCAGATGATGAATACTGGGCC	1666
Db	1636	TCTCGAACTACACGGCAGAGGAGAAATCTTCGCCACGAGCTGATGCGATATCGGGCC	1695
Qy	1667	AACTTTGGCCGACAGGAAACCCCAATGA	1695
Db	1696	AACTTTGGCCGACAGGGGATCCCAATGA	1724

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: May 10, 2005, 16:59:43 ; Search time 1170 Seconds  
(without alignments)  
10363.408 Million cell updates/sec

Title: US-10-001-227-1

Perfect score: 1883  
Sequence: 1 cctttagccaattcgccgaga.....gtttaacctgcagactag 1983

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 5654200 seqs, 3057283753 residues

Total number of hits satisfying chosen parameters: 11308400

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA.\*

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2: /cgn2\_6/ptodata/1/pubpna/PCT\_NEW\_PUB.seq.\*  
3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq.\*  
4: /cgn2\_6/ptodata/1/pubpna/US06\_PUBCOMB.seq.\*  
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19: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq.\*  
20: /cgn2\_6/ptodata/1/pubpna/US11\_NEW\_PUB.seq.\*  
21: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq.\*  
22: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1983	100.0	1983	16 US-10-001-227-1	Sequence 1, Appli
2	1928.6	97.3	2081	18 US-10-343-593-29	Sequence 29, Appl
3	1752	88.4	1752	16 US-10-001-227-3	Sequence 3, Appl
4	1459.4	73.6	2178	17 US-10-108-260A-339	Sequence 339, App
5	1013	51.1	2456	9 US-09-978-295A-253	Sequence 253, App
6	1013	51.1	2456	9 US-09-978-697-253	Sequence 253, App
7	1013	51.1	2456	9 US-09-978-192A-253	Sequence 253, App
8	1013	51.1	2456	9 US-09-999-832A-253	Sequence 253, App
9	1013	51.1	2456	10 US-09-978-189-253	Sequence 253, App
10	1013	51.1	2456	10 US-09-978-608A-253	Sequence 253, App
11	1013	51.1	2456	10 US-09-978-585A-253	Sequence 253, App

12	1013	51.1	2456	10 US-09-978-191A-253	Sequence 253, App
13	1013	51.1	2456	10 US-09-978-403A-253	Sequence 253, App
14	1013	51.1	2456	10 US-09-978-564A-253	Sequence 253, App
15	1013	51.1	2456	10 US-09-999-833A-253	Sequence 253, App
16	1013	51.1	2456	10 US-09-981-915A-253	Sequence 253, App
17	1013	51.1	2456	10 US-09-978-824-253	Sequence 253, App
18	1013	51.1	2456	10 US-09-918-585A-253	Sequence 253, App
19	1013	51.1	2456	10 US-09-999-834A-253	Sequence 253, App
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22	1013	51.1	2456	10 US-09-999-830A-253	Sequence 253, App
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34	1013	51.1	2456	10 US-09-978-665A-253	Sequence 253, App
35	1013	51.1	2456	10 US-09-978-802A-253	Sequence 253, App
36	1013	51.1	2456	11 US-09-999-831A-253	Sequence 253, App
37	1013	51.1	2456	13 US-10-052-586-57	Sequence 57, Appl
38	1013	51.1	2456	14 US-10-174-590-57	Sequence 57, Appl
39	1013	51.1	2456	14 US-10-176-758-57	Sequence 57, Appl
40	1013	51.1	2456	14 US-10-175-737-57	Sequence 57, Appl
41	1013	51.1	2456	14 US-10-174-581-57	Sequence 57, Appl
42	1013	51.1	2456	14 US-10-176-483-57	Sequence 57, Appl
43	1013	51.1	2456	14 US-10-176-749-57	Sequence 57, Appl
44	1013	51.1	2456	14 US-10-176-914-57	Sequence 57, Appl
45	1013	51.1	2456	14 US-10-176-915-57	Sequence 57, Appl

#### ALIGNMENTS

RESULT 1  
US-10-001-227-1  
; Sequence 1, Application US/10001227  
; Publication No. US20030166900A1  
; GENERAL INFORMATION:  
; APPLICANT: KAPELIER-LIBERMANN  
; APPLICANT: SILOS-SANTIAGO  
; TITLE OF INVENTION: METHODS OF USING 18903 TO TREAT PAIN AND  
; TITLE OF INVENTION: PAIN-RELATED DISORDERS  
; FILE REFERENCE: MNI-199  
; CURRENT APPLICATION NUMBER: US/10/001,227  
; CURRENT FILING DATE: 2001-11-30  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR FILING DATE: 2000-11-30  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 1983  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (98)...(1849)  
US-10-001-227-1

Query Match 100.0%; Score 1983; DB 16; Length 1983;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1983; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 1 CTTTGTAGCCAATTGCGCCGAGCGCTCCCGCCCCAGTACTTGTGGCAGGAGGATTAAGAGCA 60  
QY 61 GATAAAAGTGTGTCTACACACTGTAGACACGGCTACCATGCCATCCACAGTGTGCCATC 120

Db 61 GATAAAGTGTCTCACACACTGTAGACAGGCTACATGCCATCCACAGTGTGGCATC 120  
QY 121 CACAGTGTGCCATCACTCTCTGCCCAACAGAGAGCTGGCTGGAGCATGAGGTGGATTCT 180  
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QY 241 GAGGCTCAAGTGTGTACCAAAATATGAAACCTCTGCAAGGAAACACAGATCATGTGGGAA 300  
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QY 421 GCCTGGGTGCTGCAGAGTCTTGGGCGCAGCTGGCTCGATGTAGCTCAGCACGCGGA 480  
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QY 781 CGCAGCTTCCGGGGAGACCCAGAAATGTGACCTGTTCGGCCAGTTCGGCGGGGCGCAT 840  
Db 781 CGCAGCTTCCGGGGAGACCCAGAAATGTGACCTGTTCGGCCAGTTCGGCGGGGCGCAT 840  
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QY 1561 AGACCATGGGATGAGATGATCTTCTTCTTGGGCGCCCTTGGCCACAGGCTTTCCAT 1620  
Db 1561 AGACCATGGGATGAGATGATCTTCTTCTTGGGCGCCCTTGGCCACAGGCTTTCCAT 1620  
QY 1621 GGTGAGGAGAGGCACTTAGCTCCAGATGATGAATACTGGGCGCAACTTTGCCCGCAC 1680  
Db 1621 GGTGAGGAGAGGCACTTAGCTCCAGATGATGAATACTGGGCGCAACTTTGCCCGCAC 1680  
QY 1681 AGGAAACCCCAATGATGGGAATCTGCTGCTGGCCACGCTACAAAGGATGAAAGTA 1740  
Db 1681 AGGAAACCCCAATGATGGGAATCTGCTGCTGGCCACGCTACAAAGGATGAAAGTA 1740  
QY 1741 CTTGAGCTGGAATTTTACCAAGAGTGGGCTGAGCTCAAGGAGAGAGATGCTTT 1800  
Db 1741 CTTGAGCTGGAATTTTACCAAGAGTGGGCTGAGCTCAAGGAGAGAGATGCTTT 1800  
QY 1801 TTGGATGAGTCTGTACCACTCTCAAGAGCTGAGAGAGAGAGGCAATTTCAAGGCTGGCT 1860  
Db 1801 TTGGATGAGTCTGTACCACTCTCAAGAGCTGAGAGAGAGAGGCAATTTCAAGGCTGGCT 1860  
QY 1861 ATGCAAGAGAGGAGGAGGAGGCTTGGCCCGCCACCATCCAGGCTGGGAGACTAGCC 1920  
Db 1861 ATGCAAGAGAGGAGGAGGAGGCTTGGCCCGCCACCATCCAGGCTGGGAGACTAGCC 1920  
QY 1921 ATGGACATACCTGGGAGAGAGTCTTACCCAGGCGGAATTCGTTTAAACCTGCAAGGAC 1980  
Db 1921 ATGGACATACCTGGGAGAGAGTCTTACCCAGGCGGAATTCGTTTAAACCTGCAAGGAC 1980  
QY 1981 TAG 1983  
Db 1981 TAG 1983

## RESULT 2

US-10-343-593-29  
; Sequence 29, Application US/10343593  
; Publication No. US20040110259A1  
; GENERAL INFORMATION:  
; APPLICANT: INCYTE GENOMICS, INC.; BAUGHN, Mariah R.;  
; APPLICANT: BRUNS, Christopher M.; DAS, Debopriya;  
; APPLICANT: DELEBEANE, Angelo M.; DING, Li;  
; APPLICANT: ELLIOT, Vicki S.; GANDHI, Ameena R.;  
; APPLICANT: GRIFFIN, Jennifer A.; HAFALIA, April J.A.;  
; APPLICANT: KHAN, Farrah A.; LAL, Preeti G.;  
; APPLICANT: LEE, Sally; LU, Dying Aina M.;  
; APPLICANT: LU, Yan; ARVIZU, Chandra S.;  
; APPLICANT: RAMKUMAR, Jayalaxmi; RING, Huijun Z.;



APPLICANT: SANJANWALA, Madhusudan M.; TANG, Y. Tom;  
APPLICANT: THANGAVELU, Kavitha; THORNTON, Michael;  
APPLICANT: TRIBOULEY, Catherine M.; CHAWLA, Narinder K.;  
APPLICANT: WARREN, Bridget A.; YANG, Junming;  
APPLICANT: YAO, Monique G.; YUE, Henry  
TITLE OF INVENTION: DRUG METABOLIZING ENZYMES  
FILE REFERENCE: PI-0185 USN  
CURRENT APPLICATION NUMBER: US/10/343,593  
CURRENT FILING DATE: 2003-01-29  
PRIOR APPLICATION NUMBER: US 60/223,055  
PRIOR FILING DATE: 2000-08-04  
PRIOR APPLICATION NUMBER: US 60/224,728  
PRIOR FILING DATE: 2000-08-11  
PRIOR APPLICATION NUMBER: US 60/226,440  
2000-08-18  
PRIOR APPLICATION NUMBER: US 60/228,067  
PRIOR FILING DATE: 2000-08-24  
PRIOR APPLICATION NUMBER: US 60/230,063  
PRIOR FILING DATE: 2000-08-31  
PRIOR APPLICATION NUMBER: US 60/232,244  
PRIOR FILING DATE: 2000-09-13  
PRIOR APPLICATION NUMBER: US 60/234,269  
PRIOR FILING DATE: 2000-09-20  
NUMBER OF SEQ ID NOS: 38  
SOFTWARE: PERL Program  
SEQ ID NO 29  
LENGTH: 2081  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc feature  
OTHER INFORMATION: Incyte ID No: 7478588CB1  
US-10-343-593-29

Query Match 97.3%; Score 1928.6; DB 18; Length 2081;  
Best Local Similarity 99.8%; Pred. No. 0;  
Matches 1931; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy	18	CGAGGCTCCGCGCCAGTACTTGTGCGCAGGATTAAGACGAGATAAAAGTGTCTCAC	77
Db	27	CAATCCCCCGCCAGTACTTGTGCGCAGGATTAAGACGAGATAAAAGTGTCTCAC	86
Qy	78	ACACTGTAGACACGGCTACCATGCCATCCACAGTGTGCCATCCACAGTGTGCCATCAC	137
Db	87	ACACTGTAGACACGGCTACCATGCCATCCACAGTGTGCCATCCACAGTGTGCCATCAC	146
Qy	138	TCTGTGCCACACGACGAGCTGGCTGGAGCATGAGTGGATTCTGTGTGGAGCCTCACCC	197
Db	147	TCTGTGCCACACGACGAGCTGGCTGGAGCATGAGTGGATTCTGTGTGGAGCCTCACCC	206
Qy	198	TCTGCTGTATGGCGCAGACGGCCTTGGGTGCTTTGCACACCAAGAGGCCTCAAGTGGTCA	257
Db	207	TCTGCTGTATGGCGCAGACGGCCTTGGGTGCTTTGCACACCAAGAGGCCTCAAGTGGTCA	266
Qy	258	CGAAATATGGAACCTTCGAAGGAAACAGATGATGTGGGGAAGACACCCATCCAGTCT	317
Db	267	CGAAATATGGAACCTTCGAAGGAAACAGATGATGTGGGGAAGACACCCATCCAGTCT	326
Qy	318	TTTTAGAGTCCCTTCTCCAGACCTCTCTAGTATCTCTAGTATCTCTAGTATCTCTAGTAT	377
Db	327	TTTTAGAGTCCCTTCTCCAGACCTCTCTAGTATCTCTAGTATCTCTAGTATCTCTAGTAT	386
Qy	378	CCCGGAGCCTTGGAAAGGAATCAGAGATGCTACCACTACCCGCTGGGTGCTGCAGG	437
Db	387	CCCGGAGCCTTGGAAAGGAATCAGAGATGCTACCACTACCCGCTGGGTGCTGCAGG	446
Qy	438	AGTCTTGGGCGCAGCTGGCTCCATGTACGTCAGACGCGGGAAACGAGTCAAGTGGCTGC	497
Db	447	AGTCTTGGGCGCAGCTGGCTCCATGTACGTCAGACGCGGGAAACGAGTCAAGTGGCTGC	506
Qy	498	GCTTCAGCGAGGACTGTCTGTACTGAACTGTGTACGCGCGCGCGCGCGCGCGCGGATC	557
Db	507	GCTTCAGCGAGGACTGTCTGTACTGAACTGTGTACGCGCGCGCGCGCGCGCGCGGATC	566

558 CCAGCTGCCAGTGTATGCTGTCTGCTCCCGGAGGCGCCTTTCATCGTGGGCGCTGCTTCTT 617  
567 CCAGCTGCCAGTGTATGCTGTCTGCTTCCCGGAGGCGCCTTTCATCGTGGGCGCTGCTTCTT 626  
618 CGTACAGAGGCTCTGACTTGGCGCGCCGCGAGAAAGTGTGTGCTGTGCTTCTTCAGCACA 677  
627 CGTACAGAGGCTCTGACTTGGCGCGCCGCGAGAAAGTGTGTGCTGTGCTTCTTCAGCACA 686  
678 GGCTCGGCATCTTTCGCTTCTGAGCACGACGACGACGACGCGCGCGGAACTTGGGGGC 737  
687 GGCTCGGCATCTTTCGCTTCTGAGCACGACGACGACGACGCGCGCGGAACTTGGGGGC 746  
738 TGCTGACACAGATGGGCGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 797  
747 TGCTGACACAGATGGGCGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 806  
798 ACCAGGAAATGTAGCCCTTTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 857  
807 ACCAGGAAATGTAGCCCTTTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 866  
858 TGATGTACCCCTTAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 917  
867 TGATGTACCCCTTAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 926  
918 TATTGAGACTTTTTCATCACTAGTAACTGAAAGTGGCCAAAGAGTGTGCCACCTCG 977  
927 TATTGAGACTTTTTCATCACTAGTAACTGAAAGTGGCCAAAGAGTGTGCCACCTCG 986  
978 CTGGATGCAAC 1037  
987 CTGGATGCAAC 1046  
1038 CCAAGTGTATGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1097  
1047 CCAAGTGTATGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1106  
1098 CGAAGAGATTAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1157  
1107 CGAAGAGATTAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1166  
1158 CTTTGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1217  
1167 CTTTGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1226  
1218 ACCTGGAATTCATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1277  
1227 ACCTGGAATTCATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1286  
1278 TGAGAAAGGAAACCATCATCAAGATGCTTGGAGTACCCGACCCCTGTTGAATATCACCA 1337  
1287 TGAGAAAGGAAACCATCATCAAGATGCTTGGAGTACCCGACCCCTGTTGAATATCACCA 1346  
1338 AGGAGCAGGTACCACTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1397  
1347 AGGAGCAGGTACCACTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1406  
1398 AGATGCTACGAAACCTGATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTATGAGT 1457  
1407 AGATGCTACGAAACCTGATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTATGAGTATGAGT 1466  
1458 TGAGATGCTACCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1517  
1467 TGAGATGCTACCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1526  
1518 ACCAGCCTGCTGGAATTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1577  
1527 ACCAGCCTGCTGGAATTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1586  
1578 TGATGCTTCTTCTTGGGGGCGCTTCCGACAGGCTTCCATGCGGTAAAGGAAAGGACAC 1637  
1587 TGATGCTTCTTCTTGGGGGCGCTTCCGACAGGCTTCCATGCGGTAAAGGAAAGGACAC 1646

Qy	1638	TTAGCTCCAGATGATGAATACTATGGGCCAACTTTGGCCCGCACAGGAAACCCCAATGATG	1639
Db	1647	TTAGCTCCAGATGATGAATACTATGGGCCAACTTTGGCCCGCACAGGAAACCCCAATGATG	1706
Qy	1598	GGAATCTGCCCTGCTGTGCCCAAGCTACAAACAGGATGAAAAGTACCTGCAGCTCGATTTTA	1757
Db	1707	GGAATCTGCCCTGCTGTGCCCAAGCTACAAACAGGATGAAAAGTACCTGCAGCTCGATTTTA	1766
Qy	1758	CCACAAGATGGGCATCAAGCTCAAGCAGAGAAGATGGCTTTTGGATCAGATCTGTACC	1817
Db	1767	CCACAAGATGGGCATCAAGCTCAAGCAGAGAAGATGGCTTTTGGATCAGATCTGTACC	1826
Qy	1818	AGTCTCAAAGACCTCGAGAAGCAGAGGCGAAATTTAAGGGTGGCTATGCAGGAAGGAGCAA	1877
Db	1827	AGTCTCAAAGACCTCGAGAAGCAGAGGCGAAATTTAAGGGTGGCTATGCAGGAAGGAGCAA	1886
Qy	1878	AGAGGGGTTTGCCCCCACCATCCAGGCCCTGGGGAGACTAGCCCATGACATACCTGGGGA	1937
Db	1887	AGAGGGGTTTGCCCCCACCATCCAGGCCCTGGGGAGACTAGCCCATGACATACCTGGGGA	1946
Qy	1938	CAAGAGTTCTACCCA	1952
Db	1947	CAAGAGTTCTACCCA	1961

## RESULT. T 3

```

RES001.3
US-10-001-227-3
; Sequence 3, Application US/10001227
; Publication No. US20030166900A1
; GENERAL INFORMATION:
; APPLICANT: KAPELLER-LIBERMANN
; APPLICANT: SILOS-SANTIAGO
; TITLE OF INVENTION: METHODS OF USING 18903 TO TREAT PAIN AND
; TITLE OF INVENTION: PAIN-RELATED DISORDERS
; FILE REFERENCE: MNI-199
; CURRENT APPLICATION NUMBER: US/10/001,227
; CURRENT FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: 60/250929
; PRIOR FILING DATE: 2000-11-30
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 1752
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(1752)
US-10-001-227-3

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Query Match	88.4%	Score 1752;	DB 16;	Length 1752;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1752;	Conservative	0;	Mismatches 0;	Indels 0;
Gaps	0;			
Qy	98	ATGCCATCCACAGTGTGCCATCCACAGTGTGCCATCACTCTCTGCCACACAGCAGGAGCT	157	
Db	1	ATGCCATCCACAGTGTGCCATCCACAGTGTGCCATCACTCTCTGCCACACAGCAGGAGCT	60	
Qy	158	GGCTGGAGCAGTGGAGTATCTGTGCTGGAGGCTCAACCTCTGCCTCATGCGCGCAGACG	217	
Db	61	GGCTGGAGCAGTGGAGTATCTGTGCTGGAGGCTCAACCTCTGCCTCATGCGCGCAGACG	120	
Qy	218	GCCTTGGGTGCTTGCAACCAAGAGGCGCTCAAGTGGTCAACCAATATGGAACCCCTGC	277	
Db	121	GCCTTGGGTGCTTGCAACCAAGAGGCGCTCAAGTGGTCAACCAATATGGAACCCCTGC	180	
Qy	278	GGAAACAGATGCATGTGGGGAAGACACCCATCCAACTCTTTTATAGGAGTCCCTTCTCC	337	
Db	181	GGAAACAGATGCATGTGGGGAAGACACCCATCCAACTCTTTTATAGGAGTCCCTTCTCC	240	
Qy	338	AGACCTCTCTAGGTATCTCTAGGTTTGCACTCTCAGAACCCCCGGAGCCCTTGGAAAGGA	397	
Db	241	AGACCTCTCTAGGTATCTCTAGGTTTGCACTCTCAGAACCCCCGGAGCCCTTGGAAAGGA	300	

Qy		398	ATCAGAGATGCTACACACTTACC CGCGCTGGGTGCCTTCAGAGAGTGCTCGGGCCAGCTGGCC	457
Dd		301	ATCAGAGATGCTACCACTTACC CGCGCTGGGTGCCCTGCAGAGAGTGCTCGGGCCAGCTGGCC	360
Qy		458	TGAGTAGCTCAGCACGCGGAAACGGTACAAGTGGCTGCGCTTCAGCGAGCACTGTCTG	517
Dd		361	TGAGTAGCTCAGCMCGCGGAACGGTACAAGTGGCTGGCTTCAGCGAGCACTGTCTG	420
Qy		518	TACCTGAACGTGTACGCGCGCGCGCGCGCGCGCGGAGTCCCACACTGCGCATGTGATGTC	577
Dd		421	TACCTGAACGTGTGTACGCGCGCGCGCGCGCGCGCGGAGTCCCACACTGCGCATGTGATGTC	480
Qy		578	TGCTTTCCGGGAGGCGCTTCATCGTGGCGCTGCTTCTTCGTACGAGGGCTCTGACTTG	637
Dd		481	TGCTTTCCGGGAGGCGCTTCATCGTGGCGCTGCTTCTTCGTACGAGGGCTCTGACTTG	540
Qy		638	GCCGCCCGGAGAAGTAGTGCTGTTTTCTTCGACACAGGCTCGGCATCTTCGGCTTC	697
Dd		541	GCCGCCCGGAGAAGTAGTGCTGTTTTCTTCGACACAGGCTCGGCATCTTCGGCTTC	600
Qy		698	CTGAGCACGGACGACAGCCA GCGCGCGCGGA ACTGGGGCTGCTCGAACAGATGGCGCT	757
Dd		601	CTGAGCACGGACGACAGCCA GCGCGCGCGGA ACTGGGGCTGCTCGAACAGATGGCGCT	660
Qy		758	CTCGCTGGGTGCAGGAGAACTCGCAGCGCTTCGGGGGAGACCAGGAAA TGTGACCTG	817
Dd		661	CTCGCTGGGTGCAGGAGAACTCGCAGCGCTTCGGGGGAGACCAGGAAA TGTGACCTG	720
Qy		818	TTCCGGCCAGTCGCGGGGCGCATGAGCATCTCAGGACTGATGATGTCACCCCTAGGCTCG	877
Dd		721	TTCCGGCCAGTCGCGGGGCGCATGAGCATCTCAGGACTGATGATGTCACCCCTAGGCTCG	780
Qy		878	GGTCTCTTCATCGGCGCAATTCC CAGAGTGGCACCGCGTTA TT CAGACTTTTTCATCACT	937
Dd		781	GGTCTCTTCATCGGCGCAATTCC CAGAGTGGCACCGCGTTA TT CAGACTTTTTCATCACT	840
Qy		938	AGTAACCCACTGAAAA GTGGCC AAGAA AGT TGCCCCACTCGCTGGATGG AAC CAACACAGC	997
Dd		841	AGTAACCCACTGAAAA GTGGCC AAGAA AGT TGCCCCACTCGCTGGATGG AAC CAACACAGC	900
Qy		998	ACA CAGATCTGTATAA CTG CCTGAGGCACTATCAGGCACNAAGTGATGGGTGTGTC	1057
Dd		901	ACA CAGATCTGTATAA CTG CCTGAGGCACTATCAGGCACNAAGTGATGGGTGTGTC	960
Qy		1058	AACAAGATGAGATTCTCTCAA CTGAACTTC CAGAGAGACCCGGAAGAGATTA CTCGGTCC	1117
Dd		961	AACAAGATGAGATTCTCTCAA CTGAACTTC CAGAGAGACCCGGAAGAGATTA CTCGGTCC	1020
Qy		1118	ATGAGCCTGTGTGAGATGTGTGAT TC CAGATGAC CCCTTTGTTGCTCTGACCCAG	1177
Dd		1021	ATGAGCCTGTGTGAGATGTGTGAT TC CAGATGAC CCCTTTGTTGCTCTGACCCAG	1080
Qy		1178	GGGAAGTTTCACTGTGCGCC TACTCTTAGTGTC AA CAA CTCTGGAATTC AATTCGGCTC	1237
Dd		1081	GGGAAGTTTCACTGTGCGCC TACTCTTAGTGTC AA CAA CTCTGGAATTC AATTCGGCTC	1140
Qy		1238	TTGCCTTATATCATGAAGTTCCGCT AAA CCGCAGCGGATGAGAAAGGAAA CCATCACT	1297
Dd		1141	TTGCCTTATATCATGAAGTTCCGCT AAA CCGCAGCGGATGAGAAAGGAAA CCATCACT	1200
Qy		1298	AAGATGCTCTGGAGTACCCGCA CCCTGTTTGAATATCA CNAAGCAGCAGGTACCACTTG	1357
Dd		1201	AAGATGCTCTGGAGTACCCGCA CCCTGTTTGAATATCA CNAAGCAGCAGGTACCACTTG	1260
Qy		1358	GTGAGAGGTA CTCTGGA CAATGTCA ATGACATGCACTGGGAAGTGTCTACGAAA CCGTATG	1417
Dd		1261	GTGAGAGGTA CTCTGGA CAATGTCA ATGACATGCACTGGGAAGTGTCTACGAAA CCGTATG	1320
Qy		1418	ATGACATAGTTCAAGATGCCA CTTTCGTGTATGCCACACTGCAGACTGCTCACTACCAC	1477
Dd		1321	ATGACATAGTTCAAGATGCCA CTTTCGTGTATGCCACACTGCAGACTGCTCACTACCAC	1380

Qy	1478	CGAGATCGCGGCTCCCTGCTCTACTGTATGAATTTGAGCACACGCTCTGTGGAATATC	1537
Db	1381	CGAGATCGCGGCTCCCTGCTCTACTGTATGAATTTGAGCACACGCTCTGTGGAATATC	1440
Qy	1538	GTCAAAACCCGCACTGATGGGGCAGACCATGGGGATGAGATGTACTTCCTTTGGGGGC	1597
Db	1441	GTCAAAACCCGCACTGATGGGGCAGACCATGGGGATGAGATGTACTTCCTTTGGGGGC	1500
Qy	1598	CCCTTTCGCCACAGGCGCTTTCATCGGTAAGGAGAAGGCACCTTAGCCTCCAGATGATGAAA	1657
Db	1501	CCCTTTCGCCACAGGCGCTTTCATCGGTAAGGAGAAGGCACCTTAGCCTCCAGATGATGAAA	1560
Qy	1658	TACTGGGGCAACTTTGGCCGACAGGAAAACCCCAATGATGGGAATCTGCCCTGTGTGCCCA	1717
Db	1561	TACTGGGGCAACTTTGGCCGACAGGAAAACCCCAATGATGGGAATCTGCCCTGTGTGCCCA	1620
Qy	1718	CGCTTACAACAGGATGAAAAGTACCTGCAGCTGGATTTTACCACAAGAGTGGGCATGAAG	1777
Db	1621	CGCTTACAACAGGATGAAAAGTACCTGCAGCTGGATTTTACCACAAGAGTGGGCATGAAG	1680
Qy	1778	CTCAAGGAGAGAAGATGGCTTTTGGATGAGTCTGTACCAGTCTCAAGACCTGTGAGAAG	1837
Db	1681	CTCAAGGAGAGAAGATGGCTTTTGGATGAGTCTGTACCAGTCTCAAGACCTGTGAGAAG	1740
Qy	1838	CAGAGGCAATTC	1849
Db	1741	CAGAGGCAATTC	1752

## RES. II. T. 4

```

RES001.4
US-10-108-260A-339
; Sequence 339, Application US/10108260A
; Publication No. US20040005560A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: NO. US20040005560A1el full length cDNA
; FILE REFERENCE: HI-A0106
; CURRENT APPLICATION NUMBER: US/10/108,260A
; CURRENT FILING DATE: 2002-03-27
; NUMBER OF SEQ ID NOS: 5458
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 339
; LENGTH: 2178
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-108-260A-339

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Query Match	73.6%;	Score 1459.4;	DB 17;	Length 2178;
Best Local Similarity,	96.4%;	Pred. No. 0;		
Matches 1526;	Conservative 0;	Mismatches 1;	Indels 56;	Gaps 1;
Qy	426	GGTGGCTGCAGAGTCTCTGGGGCCAGCTGGCCCTCGATGTACGTACAGCACCGGGCAACGGT	485	
Db	86	GGTGGCTGCAGAGTCTCTGGGGCCAGCTGGCCCTCGATGTACGTACAGCACCGGGCAACGGT	145	
Qy	486	ACRAGTGGCTGGCTTCAGCGAGGACTCTGTACTGAACTGTACGGCCGGCGCGCGG	545	
Db	146	ACRAGTGGCTGGCTTCAGCGAGGACTCTGTACTGAACTGTACGGCCGGCGCGCGG	205	
Qy	546	CGCCCGGGGATCCCAGCTGCCAGGTGATGGTCTGTGTTCCCGGGAGCGGCTTCATCGTGG	605	
Db	206	CGCCCGGGGATCCCAGCTGCCAGGTGATGGTCTGTGTTCCCGGGAGCGGCTTCATCGTGG	265	
Qy	606	CGCGTGTCTTCTGTACAGAGGCTCTGACTTGGCCGCCCGCGAGAAAGTGGTCTGGTGT	665	
Db	266	CGCGTGTCTTCTGTACAGAGGCTCTGACTTGGCCGCCCGCGAGAAAGTGGTCTGGTGT	325	
Qy	666	TTCTGCAGCACAGGCTCGGCATCTTCGGGCTTCCTGA-----	701	
Db	326	TTCTGCAGCACAGGCTCGGCATCTTCGGGCTTCCTGAAGTGGCGGGCCGGTACCCCTTTGG	385	
Qy	702	-----GCACGACGACAGCCACGGCCGCGGGGAA	729	

386	Db	GACCGCAGCTGTGGCCAGACGCGCGGGGACTGTGCA CGGACGACAGCCACGCGCGCGCGGAA	445
730	Qy	CTGGGGGCTCTCTGGACCAGATGGCGGCTCTGCGCTGGGTGCGAGAGAAATCATCGACGCTT	789
446	Db	CTGGGGGCTCTCTGGACCAGATGGCGGCTCTGCGCTGGGTGCGAGAGAAATCATCGACGCTT	505
790	Qy	CGGGGGAGACCCAGGAAATGTGACCTCTGTTTCGGCCAGTGGCGGGGGCCATGAGCATCTC	849
506	Db	CGGGGGAGACCCAGGAAATGTGACCTCTGTTTCGGCCAGTGGCGGGGGCCATGAGCATCTC	565
850	Qy	AGGACTGATGATCTCAACCTAGCCTCGGCTCTCTTCATCGGGCCATTTCCACAGATGG	909
566	Db	AGGACTGATGATCTCAACCTAGCCTCGGCTCTCTTCATCGGGCCATTTCCACAGATGG	625
910	Qy	CACCGCTTATTCAGACTTTTCATCTACTAGTAACCCACTGAAAGTGGCCAGAAAGTTTC	969
626	Db	CACCGCTTATTCAGACTTTTCATCTACTAGTAACCCACTGAAAGTGGCCAGAAAGTTTC	685
970	Qy	CCACTTGGCTGGATGC AACCAACAGCACACAGATCTCTGGTAAATCTGCTGAGGCACT	1029
686	Db	CCACTTGGCTGGATGC AACCAACAGCACACAGATCTCTGGTAAATCTGCTGAGGCACT	745
1030	Qy	ATCAGGGACCAAGGTGATGCGTGTCTCCACAGATGAGATTCTCCACTGGAATCTCCA	1089
746	Db	ATCAGGGACCAAGGTGATGCGTGTCTCCACAGATGAGATTCTCCACTGGAATCTCCA	805
1090	Qy	GAGAGACCCGGAAGAGATTATCTGGTCCATGAGCCCTGTGGTGGATGGTGTGTGATCCC	1149
806	Db	GAGAGACCCGGAAGAGATTATCTGGTCCATGAGCCCTGTGGTGGATGGTGTGTGATCCC	865
1150	Qy	AGATGACCCCTTTGGTGTCTCTGACCCAGGGGAAGTTTTCATCTGTGCCCTTCTTAGG	1209
866	Db	AGATGACCCCTTTGGTGTCTCTGACCCAGGGGAAGTTTTCATCTGTGCCCTTCTTAGG	925
1210	Qy	TGTCACAACTCGAATTCAAATTTGGCTCTTGCCCTTATATCATGAAAGTTCCGCTAAACCG	1269
926	Db	TGTCACAACTCGAATTCAAATTTGGCTCTTGCCCTTATATCATGAAAGTTCCGCTAAACCG	985
1270	Qy	GCAGGCGATGAGAAAAGAAACCATCACTAAGATGCTCTGGAGTACCCGCAACCTGTGAA	1329
986	Db	GCAGGCGATGAGAAAAGAAACCATCACTAAGATGCTCTGGAGTACCCGCAACCTGTGAA	1045
1330	Qy	TATCACCAAGGACGAGTACCACTTGTGTGGAGGAGTACCTGGACAATGTCAATGAGCA	1389
1046	Db	TATCACCAAGGACGAGTACCACTTGTGTGGAGGAGTACCTGGACAATGTCAATGAGCA	1105
1390	Qy	TGACTGGAGATGCTAGGAAACCGTATGATGGACATAGTTCAAGATGCCACTTTCTGTGA	1449
1106	Db	TGACTGGAGATGCTAGGAAACCGTATGATGGACATAGTTCAAGATGCCACTTTCTGTGA	1165
1450	Qy	TGCCACACTGCACTGCTCACTACCAACGAGATGCCGCTCCCTGTCTACTCTGTATGA	1509
1166	Db	TGCCACACTGCACTGCTCACTACCAACGAGATGCCGCTCCCTGTCTACTCTGTATGA	1225
1510	Qy	ATTTGAGCACCACTCGTGGAAATACTGTCAAAACCCGCACTGATGGGGCAGACCATGG	1569
1226	Db	ATTTGAGCACCACTCGTGGAAATACTGTCAAAACCCGCACTGATGGGGCAGACCATGG	1285
1570	Qy	GGATGAGATGTATCTTCTTTGGGGGGCCCTTCGCCACAGGCTTTTCAATGGTTAAGGA	1629
1286	Db	GGATGAGATGTATCTTCTTTGGGGGGCCCTTCGCCACAGGCTTTTCAATGGTTAAGGA	1345
1630	Qy	GAAGGCACCTTAGGCTCCAGATGATGAAATACTTGGGCCAACTTTGCCCGCACAGGAACCC	1689
1346	Db	GAAGGCACCTTAGGCTCCAGATGATGAAATACTTGGGCCAACTTTGCCCGCACAGGAACCC	1405
1690	Qy	CAATGATGGGAATCTGCCCTGTCTGGCCACGCTCAAAAGGATGAAAGTACCTCGAGCT	1749
1406	Db	CAATGATGGGAATCTGCCCTGTCTGGCCACGCTCAAAAGGATGAAAGTACCTCGAGCT	1465
1750	Qy	GGATTTTATCAACAAAGTGGGCATGAAGCTCAAGGAGAAAGATGGCTTTTGTGATGAG	1809
1466	Db	GGATTTTATCAACAAAGTGGGCATGAAGCTCAAGGAGAAAGATGGCTTTTGTGATGAG	1525

QY 1810 TCTGTACCACTCTCAAGACCTGAGAGCAGAGGCAATCTTAAGGGTGGCTATGCAGGAA 1869  
Db 1526 TCTGTACCACTCTCAAGACCTGAGAGCAGAGGCAATCTTAAGGGTGGCTATGCAGGAA 1585  
QY 1870 GGAGCCAAAGAGGGGTTTGCCCCCACCATCCAGGCCCTCGGGGAGACTAGCCCATGGACATA 1929  
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## RESULT 5

US-09-978-295A-253  
; Sequence 253, Application US/09978295A  
; Patent No. US20020156006A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Kuo, Sophia S.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James;  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Shelton, David L.  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2630P1C11  
; CURRENT APPLICATION NUMBER: US/09/978,295A  
; CURRENT FILING DATE: 2001-10-15  
; PRIOR APPLICATION NUMBER: 09/918585  
; PRIOR FILING DATE: 2001-07-30  
; PRIOR APPLICATION NUMBER: 60/062250  
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;; PRIOR APPLICATION NUMBER: 60/085697

Query Match 51.1%; Score 1013; DB 9; Length 2456;  
Best Local Similarity 78.2%; Pred. No. 3.7e-296;

Matches 1446; Conservative 0; Mismatches 0; Indels 403; Gaps 3;  
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## RESULT, T 7

US-09-978-192A-253  
; Sequence 253, Application US/09978192A  
; Patent No. US20020177553A1

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/ GENERAL INFORMATION:
/ APPLICANT: Ashkenazi, Avi
/ APPLICANT: Baker Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan
/ APPLICANT: Ferrara, Napoleon
/ APPLICANT: Filvaroff, Ellen
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Gerber, Hanspeter
/ APPLICANT: Gerritsen, Mary E.
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, J. Christopher
/ APPLICANT: Gurney, Austin L.
/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Kljavin, Ivar J.
/ APPLICANT: Kuo, Sophia S.
/ APPLICANT: Napier, Mary A.
/ APPLICANT: Pan, James;
/ APPLICANT: Paoni, Nicholas F.
/ APPLICANT: Roy, Margaret Ann
/ APPLICANT: Shelton, David L.
/ APPLICANT: Stewart, Timothy A.
/ APPLICANT: Tumas, Daniel
/ APPLICANT: Williams, P. Mickey
/ APPLICANT: Wood, William I.
/ TITLE OF INVENTION: Secreted and Trademarked
/ FILE OF INVENTION: Acids Encoding
/ FILE REFERENCE: P2630PLC9
/ CURRENT APPLICATION NUMBER: US/09/97
/ CURRENT FILING DATE: 2001-10-15
/ PRIOR APPLICATION NUMBER: 09/918585
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/ PRIOR APPLICATION NUMBER: 60/062250
/ PRIOR FILING DATE: 1997-10-17
/ PRIOR APPLICATION NUMBER: 60/064249
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/ PRIOR APPLICATION NUMBER: 60/065311
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/ PRIOR FILING DATE: 1997-11-21
/ PRIOR APPLICATION NUMBER: 60/077450
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/ PRIOR APPLICATION NUMBER: 60/077632
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/ PRIOR APPLICATION NUMBER: 60/077641

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; PRIOR FILING DATE: 1998-05-15  
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 ; PRIOR FILING DATE: 1998-05-15  
 ; PRIOR APPLICATION NUMBER: 60/085697

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Query Match      51.1%; Score 1013; DB 9; Length 2456;
Best Local Similarity 78.2%; Pred. No. 3.7e-296;
Matches 1446; Conservative 0; Mismatches 0; Indels 403; Gaps 3;
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[illegible]

APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth J.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Kuo, Sophia S.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Shelton, David L.  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2630PIC63  
CURRENT APPLICATION NUMBER: US/09/999,832A  
CURRENT FILING DATE: 2001-10-24  
PRIOR APPLICATION NUMBER: 09/918585  
PRIOR FILING DATE: 2001-07-30  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/064249  
PRIOR FILING DATE: 1997-11-03  
PRIOR APPLICATION NUMBER: 60/065311  
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QY	284	CAGATGCATGTGGGGAAGACAC	CCCATCAAGATCTTTTATGAGTGC	TCCCTTTCTCCAGACT	343
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QY	404	GATGCTACCACTACCCGCTG	-----	425	
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QY	426	-----	-----	425	
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; Publication No. US20030004102A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Pong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
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; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
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; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Kuo, Sophia S.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas P.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Shelton, David L.  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
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; PRIOR APPLICATION NUMBER: 60/081819

[illegible]

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Db 1531 -----AATATCACCAGGAGCAGGTAGCACTTGTGTGGAG 1566
QY 1364 GAGTACTGGCAATGTCAATGAGCATGCTGGAAGATGCTAGCAACCTGATATGATGGAC 1423
Db 1567 GAGTACTGGCAATGTCAATGAGCATGCTGGAAGATGCTAGCAACCTGATATGATGGAC 1626
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QY 1544 CCGCGCACTGATGGGGCAGACCATGGGGATGATGTACTTCTCTTTGGGGGCCCTTC 1603
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QY 1904 CCTGGGGAGCTAGCCATGAGATACCTGGGGACAAAGAGTTTCTACCCA 1952
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RESULT 10

US-09-978-608A-253

; Sequence 253, Application US/09978608A

; Publication No. US20030045462A1

; GENERAL INFORMATION:

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; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC22
; CURRENT APPLICATION NUMBER: US/09/978,608A
; CURRENT FILING DATE: 2001-10-16
; NUMBER OF SEQ ID NOS: 624
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 253
; LENGTH: 2456
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-978-608A-253
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Query Match 51.1%; Score 1013; DB 10; Length 2456;

Best Local Similarity 78.2%; Pred. No. 3.7e-296;

Matches 1446; Conservative 0; Mismatches 0; Indels 403; Gaps 3;

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QY 344 CCTCTAGGTATCTCTCAGGTTTGCACCTCCAGACCCCGAGCCCTGGAAAGAAATCAGA 403
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Db 1048 TGGGTGAGGAGAAATCGCAGCTTTCGGGGAGACCCAGGAAATGTGACCTGTTCGCG 1107  
QY 824 CAGTGGCGGGGCGCATGAGCATCTCAGGACTGATGTACCCCTAGCCTCGGCTC 883  
Db 1108 CAGTGGCGGGGCGCATGAGCATCTCAGGACTGATGTACCCCTAGCCTCGGCTC 1167  
QY 884 TTCCATCGGGCCATTTCCAGAGTGGCACCGGTTATTCAGACTTTTTCATCTAGTAAC 943  
Db 1168 TTCCATCGGGCCATTTCCAGAGTGGCACCGGTTATTCAGACTTTTTCATCTAGTAAC 1227  
QY 944 CCACTGAAAGTGGCCAAAGAGTGTGCGACCTGGCTGGATGCAACCAACAGCACACAG 1003  
Db 1228 CCACTGAAAGTGGCCAAAGAGTGTGCGACCTGGCTGGATGCAACCAACAGCACACAG 1287  
QY 1004 ATCTGGTAAACTGCTGAGGGCACTATACAGGACCAAGGTGATGCTGTGTCACAAAG 1063  
Db 1288 ATCTGGTAAACTGCTGAGGGCACTATACAGGACCAAGGTGATGCTGTGTCACAAAG 1347  
QY 1064 ATGAGATTCCTCAACTGAACTTCCAGAGAGACCCCGGAGAGATATCTGGTCCATGAGC 1123  
Db 1348 ATGAGATTCCTCAACTGAACTTCCAGAGAGACCCCGGAGAGATATCTGGTCCATGAGC 1407  
QY 1124 CTTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1183  
Db 1408 CTTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1467  
QY 1184 GTTTCATCTGTGCGCTTACCTTCTAGGTGTCAACCACTCGAAATTCATTTGGCTTTC 1243

Db 1468 GTTTCATCTGTGCGCTTACCTTCTAGGTGTCAACCACTCGAAATTCATTTGGCTTTCGCT 1527  
QY 1244 TATATCATGAAGTTCCGCTAAACCGGCGAGGCGATGAGAAAGGAAACCATCACTAAGATG 1303  
Db 1528 TAT----- 1530  
QY 1304 CTTCTGGAGTACCGGCAACCTCTGTTGAATATCAACAGGAGAGGTACACTTTGTGGTGGAG 1363  
Db 1531 -----AATATCACAAGGAGCAGGTACCACTTTGTGGTGGAG 1566  
QY 1364 GAGTACCTGCAACAAATGTCAATGAGCATGCTGGAAGATGCTACGAAACCGTATGATGGAC 1423  
Db 1567 GAGTACCTGCAACAAATGTCAATGAGCATGCTGGAAGATGCTACGAAACCGTATGATGGAC 1526  
QY 1424 ATAGTTCAAGATGCCACTTTTCGTGTATGCCACACTGCAGACTGCTCACTACCAACCGAGAT 1483  
Db 1627 ATAGTTCAAGATGCCACTTTTCGTGTATGCCACACTGCAGACTGCTCACTACCAACCGA-- 1683  
QY 1484 GCGGCGCTCCTGTCTACCTGTATGAATTTGAGCACCAAGCTCGTGGAAATATTCGTCAAA 1543  
Db 1684 ----- 1683  
QY 1544 CCGCGCACTGATGGGCGAGACCATGGGATGAGATGTACTTCTCTTTGGGGCCCTTC 1603  
Db 1684 ----- 1683  
QY 1604 GCCACAGCGCTTTTCATGGGTAAAGGAGAGGCACTTAGCCTCCAGATGATGAATACTGG 1663  
Db 1684 ----- 1683  
QY 1664 GCCAACTTTGCCCGCACAGGAAACCCCAATGATGGAATCTGCTGCTGGCCACGCTAC 1723  
Db 1684 -----GAAACCCCAATGATGGAATCTGCTGCTGGCCACGCTAC 1724  
QY 1724 AACAGGATGAAAGTACCTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1783  
Db 1725 AACAGGATGAAAGTACCTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1784  
QY 1784 GAGAGAAAGTGGCTTTTGGATGAGTCTGTACCACTCTCAAGAGCTGCAAGAGCAGAGG 1843  
Db 1785 GAGAGAAAGTGGCTTTTGGATGAGTCTGTACCACTCTCAAGAGCTGCAAGAGCAGAGG 1844  
QY 1844 CAATTTAAGGTGGCTATGCAAGGAGAGCCAAAGAGGGGTTTGGCCCCCACCATCCAGG 1903  
Db 1845 CAATTTAAGGTGGCTATGCAAGGAGAGCCAAAGAGGGGTTTGGCCCCCACCATCCAGG 1904  
QY 1904 CCTGGGAGACTAGCCATGGACATACCTGGGAGCAAGAGTTCTACCCA 1952  
Db 1905 CCTGGGAGACTAGCCATGGACATACCTGGGAGCAAGAGTTCTACCCA 1953

## RESULT 12

US-09-978-191A-253  
; Sequence 253, Application US/09978191A  
; Publication No. US2003005239A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Kljavin, Ivar J.

APPLICANT: Kuo, Sophia S.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James;  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Shelton, David L.  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2630PIC4  
CURRENT APPLICATION NUMBER: US/09/978,191A  
CURRENT FILING DATE: 2001-10-15  
PRIOR APPLICATION NUMBER: 09/918585  
PRIOR FILING DATE: 2001-07-30  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/064249  
PRIOR FILING DATE: 1997-11-03  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066364  
PRIOR FILING DATE: 1997-11-21  
PRIOR APPLICATION NUMBER: 60/077450  
PRIOR FILING DATE: 1998-03-10  
PRIOR APPLICATION NUMBER: 60/077632  
PRIOR FILING DATE: 1998-03-11  
PRIOR APPLICATION NUMBER: 60/077641  
PRIOR FILING DATE: 1998-03-11  
PRIOR APPLICATION NUMBER: 60/077649  
PRIOR FILING DATE: 1998-03-11  
PRIOR APPLICATION NUMBER: 60/077791  
PRIOR FILING DATE: 1998-03-12  
PRIOR APPLICATION NUMBER: 60/078004  
PRIOR FILING DATE: 1998-03-13  
PRIOR APPLICATION NUMBER: 60/078886  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/078936  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/078939  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/079294  
PRIOR FILING DATE: 1998-03-25  
PRIOR APPLICATION NUMBER: 60/079656  
PRIOR FILING DATE: 1998-03-26  
PRIOR APPLICATION NUMBER: 60/079664  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/079689  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/079663  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/079728  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/079786  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/079920  
PRIOR FILING DATE: 1998-03-30  
PRIOR APPLICATION NUMBER: 60/079923  
PRIOR FILING DATE: 1998-03-30  
PRIOR APPLICATION NUMBER: 60/080105  
PRIOR FILING DATE: 1998-03-31  
PRIOR APPLICATION NUMBER: 60/080107  
PRIOR FILING DATE: 1998-03-31  
PRIOR APPLICATION NUMBER: 60/080165  
PRIOR FILING DATE: 1998-03-31  
PRIOR APPLICATION NUMBER: 60/080194  
PRIOR FILING DATE: 1998-03-31  
PRIOR APPLICATION NUMBER: 60/080327  
PRIOR FILING DATE: 1998-04-01  
PRIOR APPLICATION NUMBER: 60/080328  
PRIOR FILING DATE: 1998-04-01  
PRIOR APPLICATION NUMBER: 60/080333  
PRIOR FILING DATE: 1998-04-01  
PRIOR APPLICATION NUMBER: 60/080334  
PRIOR FILING DATE: 1998-04-01  
PRIOR APPLICATION NUMBER: 60/081070  
PRIOR FILING DATE: 1998-04-08  
PRIOR APPLICATION NUMBER: 60/081049  
PRIOR FILING DATE: 1998-04-08  
PRIOR APPLICATION NUMBER: 60/081071  
PRIOR FILING DATE: 1998-04-08  
PRIOR APPLICATION NUMBER: 60/081195  
PRIOR FILING DATE: 1998-04-08  
PRIOR APPLICATION NUMBER: 60/081203  
PRIOR FILING DATE: 1998-04-09  
PRIOR APPLICATION NUMBER: 60/081229  
PRIOR FILING DATE: 1998-04-09  
PRIOR APPLICATION NUMBER: 60/081955  
PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/081817  
PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/081819  
PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/081952  
PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/081838  
PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/082568  
PRIOR FILING DATE: 1998-04-21  
PRIOR APPLICATION NUMBER: 60/082569  
PRIOR FILING DATE: 1998-04-21  
PRIOR APPLICATION NUMBER: 60/082704  
PRIOR FILING DATE: 1998-04-22  
PRIOR APPLICATION NUMBER: 60/082804  
PRIOR FILING DATE: 1998-04-22  
PRIOR APPLICATION NUMBER: 60/082700  
PRIOR FILING DATE: 1998-04-22  
PRIOR APPLICATION NUMBER: 60/082797  
PRIOR FILING DATE: 1998-04-22  
PRIOR APPLICATION NUMBER: 60/082796  
PRIOR FILING DATE: 1998-04-23  
PRIOR APPLICATION NUMBER: 60/083336  
PRIOR FILING DATE: 1998-04-27  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/083392  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083495  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083496  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083499  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083545  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083554  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083558  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083559  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083500  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083742  
PRIOR FILING DATE: 1998-04-30  
PRIOR APPLICATION NUMBER: 60/084366  
PRIOR FILING DATE: 1998-05-05  
PRIOR APPLICATION NUMBER: 60/084414  
PRIOR FILING DATE: 1998-05-06  
PRIOR APPLICATION NUMBER: 60/084441  
PRIOR FILING DATE: 1998-05-06  
PRIOR APPLICATION NUMBER: 60/084637



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Query Match		51.1%;	Score 1013;	DB 10;	Length 2456;
Best Local Similarity		78.2%;	Pred. No. 3.7e-296;		
Matches 1446;		Conservative 0;	Mismatches 0;	Indels 403;	Gaps 3;
QY	224	GGTGCTTCACACCAAGAGGCTCAAGTGGTCCACCAATATATGGAACCTTCGAAGGAAA	283		
Db	388	GGTGCTTCACACCAAGAGGCTCAAGTGGTCCACCAATATATGGAACCTTCGAAGGAAA	447		
QY	284	CAGATGCATGTGGGAGACACCCATCCAGTCTTTTATGAGTCCCTTCTCCAGACCT	343		
Db	448	CAGATGCATGTGGGAGACACCCATCCAGTCTTTTATGAGTCCCTTCTCCAGACCT	507		
QY	344	CCTCTAGGTATCTCAGGTTTGACCTCCAGAAACCCCGAGCCCTCGAAAGAAATCAGA	403		
Db	508	CCTCTAGGTATCTCAGGTTTGACCTCCAGAAACCCCGAGCCCTCGAAAGAAATCAGA	567		
QY	404	GATGCTACCACTTACCGGCTG-----	425		
Db	568	GATGCTACCACTTACCGGCTG-----	627		
QY	426	-----	425		
Db	628	GCACGATCTCGGCTCACTGCACCTCGGCTCCGGGTTCACGAGTCTCTGCTCAG	687		
QY	426	-----GGTGCCTGACAGAGTCTCGGGCCAGCTGGGCTCGATG	463		
Db	688	CCTCTGAGTGTCTGGGCTACAGGTGCCTGACGAGTCTCTGGGCGCAGCTGGGCTCGATG	747		
QY	464	TAGCTACGACCGGGGAAACGGTACAAGTGGCTCGCTTCAGCGAGAGTCTCTGTACCTG	523		
Db	748	TAGCTACGACCGGGGAAACGGTACAAGTGGCTCGCTTCAGCGAGAGTCTCTGTACCTG	807		
QY	524	AAGGTGTACGCGCGCGCGCGCGCGGAGTCCCGAGTCCCGAGTGTGCTGTCTGCTTC	583		
Db	808	AAGGTGTACGCGCGCGCGCGCGCGGAGTCCCGAGTCCCGAGTGTGCTGTCTGCTTC	867		
QY	584	CCGGAGGCGCTTTCATCGTGGGCGCTGCTTCTTCGTACGAGGCTCTGACTTTGGCGGC	643		





1124 CCTGTGTGATGCTGTGTGATCCAGATGACCTTTTGTGTCTCTGTGACCCAGGGAAG 1183  
1408 CCTGTGTGATGCTGTGTGATCCAGATGACCTTTTGTGTCTCTGTGACCCAGGGAAG 1467  
1184 GTTTCATCTGTGCTTCTAGTGTCAACAACTGGAATCAATTGGCTCTTGGCT 1243  
1468 GTTTCATCTGTGCTTCTAGTGTCAACAACTGGAATCAATTGGCTCTTGGCT 1527  
1244 TATATCATGAAGTTCGGCTAAACCGGCGGCGATGAGAAAGAACCATCACTAAGATG 1303  
1528 TAT----- 1530  
1304 CTCTGGAGTACCGCACCCTGTTGAATATCAACAGGAGCTTACCTTGTGTGGAG 1363  
1531 -----AATATCACCAGGAGGAGTACCTTGTGTGGAG 1566  
1364 GAGTACCTGCAATGTCAATGAGCATGCTGGAAGATGTACGAAACCGTATGATGGAC 1423  
1567 GAGTACCTGCAATGTCAATGAGCATGCTGGAAGATGTACGAAACCGTATGATGGAC 1626  
1424 ATAGTTCAAGATGCGACTTTCGTGTATGCCACACTGGAAGTCTCACTACCAACGAGAT 1483  
1627 ATAGTTCAAGATGCGACTTTCGTGTATGCCACACTGGAAGTCTCACTACCAACGAGAT 1683  
1484 GCCGGCTCCTGTCTACCTGTATGAATTTGAGCACCAGCTGCTGGAATATCGTCAAA 1543  
1684 ----- 1683  
1544 CCCCGCACTGATGGGCGAGACCATGCGGATGAGATGTACTTCTTTGGGGGCCCTTC 1603  
1684 ----- 1683  
1604 GCCACAGGCTTTCATGGTGAAGAGAGGCACTTAGCCTCCAGATGATGAATACTGG 1663  
1684 ----- 1683  
1664 GCCAATTTGCCCGCACAGGAAACCCCAATGATGGGAATCTGCCCTGTGGCCACGCTAC 1723  
1684 -----GAAACCCCAATGATGGGAATCTGCCCTGTGGCCACGCTAC 1724  
1724 AACAGGATGAAAGTACCTGCACTGGATTTTACCAGAGTGGGCAATGAAGTCAAG 1783  
1725 AACAGGATGAAAGTACCTGCACTGGATTTTACCAGAGTGGGCAATGAAGTCAAG 1784  
1784 GAGAAGAGTGGCTTTTGGATGAGTCTGTACAGTCTCAAGAGCTGGAAGAGCAGAG 1843  
1785 GAGAAGAGTGGCTTTTGGATGAGTCTGTACAGTCTCAAGAGCTGGAAGAGCAGAG 1844  
1844 CAATTTAAGGGTGGCTTATGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1903  
1845 CAATTTAAGGGTGGCTTATGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1904  
1904 CCCTGGGGAGACTAGCCATGACATACCTGGGGAGCAAGAGTCTTACCCA 1952  
1905 CCCTGGGGAGACTAGCCATGACATACCTGGGGAGCAAGAGTCTTACCCA 1953

## RESULT 14

US-09-978-564A-253  
; Sequence 253, Application US/09978564A  
; Publication No. US20030050241A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth J.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Kuo, Sophia S.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Shelton, David L.  
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APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
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;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085697

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Total number of hits satisfying chosen parameters: 513545

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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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; GENERAL INFORMATION:  
; APPLICANT: Danks, Mary K.  
; APPLICANT: Potter, Philip M.  
; APPLICANT: Houghton, Peter J.  
; TITLE OF INVENTION: Compositions and Methods for Sensitizing and Inhibiting Growth o  
; TITLE OF INVENTION: Tumor Cells  
; FILE REFERENCE: SJ-0005  
; CURRENT APPLICATION NUMBER: US/09/595,682B  
; CURRENT FILING DATE: 2000-01-16  
; PRIOR APPLICATION NUMBER: 60/075,258  
; PRIOR FILING DATE: 1998-02-19  
; PRIOR APPLICATION NUMBER: PCT/US99/03171  
; PRIOR FILING DATE: 1999-02-12  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: Patent in Ver. 2.0  
; SEQ ID NO 21  
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; TYPE: PRT  
; ORGANISM: Oryctolagus cuniculus  
US-09-595-682B-21

Query Match	40.5%	Score 1260;	DB 4;	Length 565;
Best Local Similarity	43.8%;	Pred. No. 4.8e-120;		
Matches	245;	Conservative 119;	Mismatches 180;	Indels 16; Gaps 9;
QY	34	LCIMACTALGAL-----HTKRPQVV-TKYGTLOGK--QMHVGKTPIOVFLGVFSPRPLGI	86	
Db	3	LCALALASLAACATGAGHPVPVDTVHGKVLGKFVSLGFAQPVAVFLGVPPAKPLGS	62	
QY	87	LRFAPPEPPEPWKGRDATTYPPGCLQE--SWQQLASMTVSTRERYKWLRFSDCLYLN	144	
Db	63	LRFAPQPAESHSVKNTTSYPPMCSQDAVSGHMLSELPNKENIP-LKFSDECLYLN	121	
QY	145	YAPARAGDPQLPVMVWFPFGGAFIVGAASYSGEDSLAAREKVVFLQHRHGLFGFLSTD	204	
Db	122	YTPADLTKRGLPVMVWIHGGGLWVGASTYDGLALSNAHNVVVTIQRVLTGTFGFFSTG	181	
QY	205	DSHARGNWGLLDOMALRWQENIAAFGGDPGNVTLFGOSAGAMSLISGLMMSLASGLFH	264	
Db	182	DEHSRGNWGLDQVALRWQDNIAFNFGDPGVTIFGSGAGQSVSILLSPKTNLFH	241	
QY	265	RAISQSGTALFRLFTSPLKVAKKVAHLGAGNNHSTQILVNCRLALSGTKVMRVSNKMR	324	
Db	242	RAISESGVALLSLFRKNTKSLAEKIAIAGCKTTTSVAVVHCLRQKTEELMEVTLKKK	301	
QY	325	FLQLNFQRDPEEIIWMSFPVVDGVPIDDDPLVLLTQGVKSVSPVYLLGVANNLEFNNLLP-Y	383	

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Db 302 FVALDLVGPDKENTAFLLTVIDGVLPKAPAEILAEKYNMLPYMGVINGQEEFGWIIPMQ 361
QY 384 IMKFPILNRQAMRKETITKMLMSTRITLLNTKEQVPLVVEYLDNVNNEHDKMLRNRMDI 443
Db 362 MLCYPLSEGLDKDQKATATELLWKSYPVNVSKELTPVATEKYLGCTDDPVKK--KOLFIDM 419
QY 444 VQDATFYATLQTAHVHRDAGLPVLYEPEHH--ARGIIVKPRDTGDAGHDEMYFLPGGP 502
Db 420 LADLLFGVPSVNVARHRRDAGATYMYRYRPSFSSDMRPKTVIGDHGDEIFSVLGAPF 479
QY 503 ATGLSMGKEKALSQMMKYWANFARTGNPDGNLPCWPYRNKDEKYLQLDFTTRVGMKMK 562
Db 480 LKEGATEBEIKLSQMMKYWANFARNGNPNGEGLPQWPAYDYKEGYLQIGATTQAAQKX 539
QY 563 EKMFAFMSLY--QSORPEK 580
Db 540 DKEVAFWTELWAKEARPRE 559

RESULT 2
US-09-264-737-2
; Sequence 2, Application US/09264737A
; Patent No. 6107549
; GENERAL INFORMATION:
; APPLICANT: Feng, Paul C.C.
; APPLICANT: Ruff, Thomas G.
; TITLE OF INVENTION: Engineering Plant Resistance to Pyridines via
; TITLE OF INVENTION: Expression of Esterase Enzymes
; FILE REFERENCE: 38-21(10551) RLE3 Pyridine Tolerance
; CURRENT APPLICATION NUMBER: US/09/264, 737A
; CURRENT FILING DATE: 1999-03-09
; EARLIER APPLICATION NUMBER: 60/077, 377
; EARLIER FILING DATE: 1998-03-10
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 566
; TYPE: PRT
; ORGANISM: Rabbit
US-09-264-737-2

Query Match 40.2%; Score 1251.5; DB 3; Length 566;
Best Local Similarity 43.7%; Pred. No. 3.6e-119;
Matches 248; Conservative 117; Mismatches 175; Indels 27; Gaps 11;
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QY 437 RNRMDIVODATFVYATLQTAHVHRDAGLPVLYEPEHH--ARGIIVKPRDTGDAGHDEMY 495
Db 414 KOLFIDMLADLLFGVPSVNVARHRRDAGATYMYRYRPSFSSDMRPKTVIGDHGDEIF 473
QY 496 FLFGPPFATGLSMGKEKALSQMMKYWANFARTGNPDGNLPCWPYRNKDEKYLQLDFTT 555
Db 474 SVLGAPFLKEGATEBEIKLSQMMKYWANFARNGNPNGEGLPQWPAYDYKEGYLQIGATT 533
QY 556 RVGMKLEKMAFMSLY--QSORPEK 580
Db 534 QAAQKLDKEVAFWTELWAKEARPRE 560

RESULT 3
US-09-595-682B-26
; Sequence 26, Application US/09595682B
; Patent No. 6800483
; GENERAL INFORMATION:
; APPLICANT: Danks, Mary K.
; APPLICANT: Potter, Philip M.
; APPLICANT: Houghton, Peter J.
; TITLE OF INVENTION: Compositions and Methods for Sensitizing and Inhibiting Growth o
; TITLE OF INVENTION: Tumor Cells
; FILE REFERENCE: SJ-0005
; CURRENT APPLICATION NUMBER: US/09/595,682B
; CURRENT FILING DATE: 2000-01-16
; PRIOR APPLICATION NUMBER: 60/075,258
; PRIOR FILING DATE: 1998-02-19
; PRIOR APPLICATION NUMBER: PCT/US99/03171
; PRIOR FILING DATE: 1999-02-12
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 26
; LENGTH: 543
; TYPE: PRT
; ORGANISM: Oryctolagus cuniculus
US-09-595-682B-26

Query Match 39.5%; Score 1230; DB 4; Length 543;
Best Local Similarity 43.9%; Pred. No. 5.4e-117;
Matches 239; Conservative 115; Mismatches 176; Indels 14; Gaps 8;
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QY 28 LWSLTLCLMAQTALGALHTKRPQVVTKYGTLOGKQMHVK--DTVKGVLP--GKFSLEGFAQPVAVFLGVPF 79
Db 7 LVN--LFLAATAWG--HPSAPPV--DTVKGVLP--GKFSLEGFAQPVAVFLGVPF 56
QY 80 SRPPLGILLRPAPEPPKGIKRDATYPPGCLQE--SWGQLASMYVSTRERYKWLRFSE 137
Db 57 AKPPLGSLRPAPEPPAESNSHVNTTSYPPMCSQDAVSGHMLSELTFTNRKENIP--LKFSE 115
QY 138 DCLYLVNYPARAGDPOLPVWVWFFGGAFIGAASSYEGSDLAAREKVVLPFLQRLGI 197
Db 116 DCLYLVNYPADLTIKGRPLPVWVWIFGGLWVGASTYDGLALSAHENVVVTIYQLGI 175
QY 198 FGLSTDDSHARGNWGLDQVALRWVQENIAAFGGDPGNVTILFGOSAGAMSTISGLMSP 257
Db 176 WGFSTGDEHSRGNWGLDQVALRWVQENIAAFGGDPGNVTILFGOSAGAMSTISGLMSP 235
QY 258 LASGLFHRAISOGTALFRILFITSNPLKVAKKVAHLACNHNSTQILVNCRLSALSGTKM 317
Db 236 LTKNLFHRAISEGVALLSLFRKNTKSLAEKIAEAGCKTTTSVAVVHCLROKTEELM 295
QY 318 RVSNKMRFLQINFORDEEIIWSMSPVVDGWIIPDDPLVLLTQCKVSSVPYLLGVNNELEF 377
Db 296 EVTLKMKFMALDLVGPDKENTAFLLTVIDGVLPKAPAEILAEKYNMLPYMGVINGQEEF 355
QY 378 NWLLP--YIMKFPILNRQAMRKETITKMLMSTRITLLNTKEQVPLVVEYLDNVNNEHDKML 436
Db 356 GWIIPMQLGYPILSEGLDKDQKATATELLWKSYPVNVSKELTPVATEKYLGCTDDPVKK-- 413
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QY 34 LCLMAQTALCAL----HTKRPOVV--TKYGTLOGK--QMHVGKTPIOVFLGVPSRPLGI 86
Db 3 LCLALASLAACATWAGHPSPAPPVVDVHCKVLGKFSVLSGPAQPVAVFLGVPAKPLGS 62
QY 87 LRFAPPEPPKGIKRDATYPPGCLQE--SWGQLASMYVSTRERYKWLRFSEDCLYLVN 144
Db 63 LRFAPPEPPAESNSHVNTTSYPPMCSQDAVSGHMLSELTFTNRKENIP--LKFSEDCLYLVN 121
QY 145 YAPARAGDPOLPVWVWFFGGAFIGAASSYEGSDLAAREKVVLPFLQRLGIFGLSTD 204
Db 122 YTPADLTIKGRPLPVWVWIFGGLWVGASTYDGLALSAHENVVVTIYQLRWGFFSTG 181
QY 205 DSHARGNWGLDQVALRWVQENIAAFGGDPGNVTILFGOSAGAMSTISGLMSPASGLFH 264
Db 182 DEHSRGNWGLDQVALRWVQENIAAFGGDPGNVTILFGOSAGAMSTISGLMSPASGLFH 241
QY 265 RAISQSGTALFRILFITSNPLKVAKKVAHLACNHNSTQILVNCRLSALSGTKMVRNKM 324
Db 242 RAISEGVALLSLFRKNTKSLAEKIAEAGCKTTTSVAVVHCLROKTEELMEVTLKMK 301
QY 325 FLQINFORDEEIIWSMSPVVDGWIIPDDPLVLLTQCKVSSVPYLLGVNNELEFNLPLP-Y 383
Db 302 FVALDLVGPDKENTAFLLTVIDGVLPKAPAEILAEKYNMLPYMGVINGQEEFGWIIPMQ 361
QY 384 IMKFPILNRQAMRKETITKMLMSTRITLLNTKEQVPLVVEYLDNVNNEHDKMLRNRMDI 443
Db 362 MLCYPLSEGLDKDQKATATELLWKSYPVNVSKELTPVATEKYLGCTDDPVKK--KOLFIDM 419
QY 444 VQDATFYATLQTAHVHRDAGLPVLYEPEHH--ARGIIVKPRDTGDAGHDEMYFLPGGP 502
```



Matches	249; Conservative	108; Mismatches	193; Indels	29; Gaps	13;
QY	26	WILCWSLTLCMAQTALGALHTKRPQV--TKYGTLOGQKMHVG----	KTPIQVFLGVPPS	80	
Db	2	WLL--FLVLTSLASSATWAGOPASPPVDTAQGRVLGKYVSLGLAFTQPVAVFLGVPPA	59		
QY	81	RPPGLILRFAPPEPPFPWGIIRDATYTPGCLQESWGQLASMYVST----	REYKWLRF	136	
Db	60	KPPLGSLRFAPPQAPAEFPWFSGVNTTSYPPMCCQDPVVEQWTSDLFTNFTGKERLT--LRF	118		
QY	137	EDCLYLNVTAPARAPGDPLPVMWFPFGAGFIVGAASSYEGSDLAAREK--	VVLVFLQHR	194	
Db	119	EDCLYLNITTPADLTXYGRPLPVMWTHGGGLVGGAPDMTGGVVLAAHENFTVWVAIQYR	178		
QY	195	LGIFFGLSTDDSHARGNWGLLDQMAALRWQVENIAAIFGGDPGNVTLLFGOS--	AGAMSISG	252	
Db	179	LGIWGFSTGDEHSRGNWGLHDQVAALHWQVENIANFGGDPGGSVTIFGESFTAGGESVSV	238		
QY	253	LWMSPLASGLFHRAISQSGTALFRLITSNPLKVAKKVAHLACGNHNSIQI--	LYNCLIRA	310	
Db	239	LVLSPALKLHFRAISGSGVALTVLALVRKDMKAAAKQIAVLACGCKTTTSAVFTFVHCLRQ	298		
QY	311	LSGTVMYRSNKRFRFQLNLFQRFORDPEEIIWSMSPVVDGWIIPDDPLVLLTQG--	KVSSVVP	368	
Db	299	KSEDELLDLTKMKFTLDFHGDQRESHPFLPTVVDGVLPLPKMPEELAEKDFTNVTVY	358		
QY	369	LLGVNNLEFNWLLPYIMKFPPLNRQMRKFTITKMLMSTRTLNITKEQVPLV--	VEEYLD	426	
Db	359	IVGINKQEFGLWLLPTMWGFFLSEGKLDQTATSLMKSYPIANIPEELTPVATFTDKYLQ	418		
QY	427	NVNEHDWKMLRNRMMDIVQDAFPVYATLOTAYVHRDAGLPVLYEPEHH--	ARGIIVKP	483	
Db	419	GTDDDPVKK--KDLFDLMGDGVFGVSPSVTAQHRDAGAPTYMYEFOYRPSSSDKFTKP	476		
QY	484	RTDGADHGDMEYPLFGGPFATGLSMGKEKALSQWKMKYWANFARTGNPDGMLPCWP--	R	541	
Db	477	KTVIGDHGDEISVFGFPLLKGDAPEEVYSLSKTVMKFWANFARSGNPNGEGLPHPWFTM	536		
QY	542	YNKDEKYLQDLFTTRVGMKLEKKMAFPWMSLYQSORPEK	580		
Db	537	YDQEEGYLOTGVNTOAKKLLKGEVAFWMDLLSKEAAK	575		

RESULT 6  
 US-09-146-661-2  
 ; Sequence 2, Application US/09146661  
 ; Patent No. 6136575  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Hubbs, John C.  
 ; TITLE OF INVENTION: Enzymatic Process for the Manufacture of  
 ; TITLE OF INVENTION: Ascorbic Acid, 2-Keto-L-Gulonic Acid, and Esters of 2-Keto-L-Gu  
 ; TITLE OF INVENTION: Acid  
 ; NUMBER OF SEQUENCES: 3  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Eastman Chemical Company  
 ; STREET: P.O. Box 511  
 ; CITY: Kingsport  
 ; STATE: Tennessee  
 ; COUNTRY: USA  
 ; ZIP: 37662-5075  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: 3.5 inch disk  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: Windows 95  
 ; SOFTWARE: Microsoft Word  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/09/146,661  
 ; FILING DATE: 03-September-98  
 ; CLASSIFICATION:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 60/017,879; 08/845,295  
 ; FILING DATE: 17-May-96; 25-April-97  
 ; ATTORNEY/AGENT INFORMATION:

```

; NAME: Cheryl J. Tubach
; REGISTRATION NUMBER: 38,346
; REFERENCE/DOCKET NUMBER: 70432
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 423-229-6189
; TELEFAX: 423-229-1239
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 584 amino acids
; TYPE: Amino Acid
; TOPOLOGY: Linear
; MOLECULE TYPE: protein
; US-09-146-661-2

Query Match 37.6%; Score 1169.5; DB 3; Length 584;
Best Local Similarity 43.0%; Pred. No. 9.9e-111;
Matches 249; Conservative 108; Mismatches 193; Indels 29; Gaps 13

Qy 26 WILCWSLTLCMAQTALGALHTKEPQVV-TKYGTLOGCKMHVG---KTIQVFLGVPFS 80
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 81 RPPLGLIRFAPPEPEPWKIGRIDATTYPGQCLOESWGQLASMTYST----RERYKWLRF 136
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 60 KPPLGSLRFPQPAEPWPFVKNTSYTPPMCCQDPVVEQMTSDLTFTNFTGKERLT-LEFS 118
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 137 EDCYLINVTYPARAPCDPOLPVMWFFGGAFTVGAASSYEGSDLAAREK---VVLVFLQHR 194
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 119 EDCYLINTYTPADLTFRGLRFVMVYIHGGGLVLGGAPMYDGVVLAAHENFTVVVVAIQYR 178
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 195 LGIFGFLSTDSHARGNWLDDMAALRWQENIAAFGGDPGNVTLFGQS--AGAMSISG 252
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 179 LGIWGFFSTGDEHSEGNWGHLDQVAAHLHWQENIANFGDPGSGVTTFGESFTAGGESV 238
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 253 LAMSPLAGLFRHAISQGTALFLFTITSNPLKVAKVAHLACGNHNSQI--LVNCLRA 310
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 239 LVLSPLAKNLFHRAISESGVALTVALVRKDMKAAKQIAVLAGCKTTTSAVFTFVHCLRQ 298
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 311 LSGTKVMVSNKMRFLQINFQDPEELIWSMSPVVDGVWIPDDPLVLLTQG--KVSSVPY 368
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 299 KSEDELDTLTKRKFLTLDFHGDQRESHPLFTVVVDGVLLPKMPEELIAEKQDFTNIVPY 358
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 369 LIGLVNLFENLLPYIMKFFPLNRMQRKETITKMLSTRTLNITKEQVPLV--VEEYLD 426
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 359 IVGINKQEFQWLLPTMGMFFPLSEGLKQDKQATSLNKSYPANIPEELTPVATFTDKYL 418
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 427 NVNEHDKMLNRNMDIVQDATFYATLQTAHYHRDAGLVPYLYEPEHH---ARGIIVKP 483
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 419 GTDDDPVKK--KDLFLDLMDGVVFGVPSTVARQHRDAGAPTYMEFYQRPFSSSDKFTKP 476
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 484 RTDGADHGDMYFLFGGPFATGLSWGKEKALSLOMKMYANFARTGNPNNDGNLPCWP--R 541
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 477 KTVIGDHGDGEIFSVFGFFLLKDDAPEEVSLSKTVMKFWANFARSGNPNGEGLPHWPF 536
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 542 YNKDEKYLQDLFTTRVGMKLEKKQVAFWMSLYSQRPKEK 580
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Qy 537 YDQEGYGLQIGVNTQAAKRLKGESEVAFNDLLSKEAAK 575
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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RESULT 7  
US-09-150-515-2  
; Sequence 2, Application: US/09150515  
; Patent No. 62/1006  
; GENERAL INFORMATION:  
; APPLICANT: Hubbs, John C.  
; TITLE OF INVENTION: Enzymatic Process for the Manufacture of  
; TITLE OF INVENTION: Ascorbic Acid, 2-Keto-L-Gulonic Acid, and Esters of  
; TITLE OF INVENTION: 2-Keto-L-Gulonic Acid  
; NUMBER OF SEQUENCES: 3  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Eastman Chemical Company  
; STREET: P.O. Box 511  
; CITY: Kingsport



```
STATE: Tennessee
COUNTRY: USA
ZIP: 37662-5075
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch disk
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows 95
SOFTWARE: Microsoft Word
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/150,515
FILING DATE: 09-SEP-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/017,879; 08/845,295
FILING DATE: 17-May-96; 25-April-97
ATTORNEY/AGENT INFORMATION:
NAME: Cheryl J. Tubach
REGISTRATION NUMBER: 38,346
REFERENCE/DOCKET NUMBER: 70432
TELECOMMUNICATION INFORMATION:
TELEPHONE: 423-229-6189
TELEFAX: 423-229-1239
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 584 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
MOLECULE TYPE: protein
US-09-150-515-2

Query Match 37.6%; Score 1169.5; DB 3; Length 584;
Best Local Similarity 43.0%; Pred. No. 9.9e-111;
Matches 249; Conservative 108; Mismatches 193; Indels 29; Gaps 13;

QY 26 WILCWSLTCLMAQTALGALHTKRPQVV---TKYGTLOGKQMHVG----KTPIOVLGVPPES 80
DB 2 WLL--PLVTSLASSATAGQAPSPVVDTAQRVLGKYVSLGELTAFTQPVAVLGVPPA 59

QY 81 RPPLGLIRFAPPEPPKGIKIRDTATPPGCLQESWGQLASMYVST----RERYKWLRF 136
DB 60 KPPLGLSRFAPPQAPSPVFKNTTSYPPMCCQDPVVEQMTSDLFNFTGKERLT-LEFS 118

QY 137 EDCLYLNVAAPAPGDPQLPVNWPFGGAFIVGAASSYEGSDLAAREK--VVLVPLQHR 194
DB 119 EDCLYLNIYTPADLTGKRGELPVNWHGGGLVLGGAPMYDGVVLAAHENFTVVAIQVR 178

QY 195 LGIFGFLSTDDSHARGNWGLDQMAALRWQENIAAFGGDGNVTILFGOS--AGAMSISG 252
DB 179 LGVGFSTGDEHSRGNWGHLDQVAALHWQENIANFGGDPGSGVTIFGSEFTAGGESV 238

QY 253 LMSPLASGLFHRAISQSGTALFRLFITSNPLKVAKKVAHLAGCENHNSTQI--LVNCLRA 310
DB 239 LVLSPLAKLNFHRAISESGVALTVLVRKDMKAAKQIAVLACGKTTTSAVTFVHCLRQ 298

QY 311 LSGTKVMRSNKRFLQLNFPQDPBEI IWSMSPVVDGVVIPPDDPLVLLTQG--KVSSVPY 368
DB 299 KSEDELLDLTLKMKFLTLDPHGQDRSHPPFLPTVVDGVLLPKMPEILAEKDPFTFTVPY 358

QY 369 LLGVNNEFLNLLPYIMKSPLNQRKKEITIKMLNSTLTLLNITKEQVPLV--VEEYLD 426
DB 359 IVGINKQEFGLWLLPTVMWGFLSGKLDQKATSLMLKSYPIANIPBELTFVATFTDKYL 418

QY 427 NVNEHDKWLRNRMDIVQDATFVYATLQTAHYHRDAGLPVLYEPEHH---ARGIIVKP 483
DB 419 GTDDPVKK--KDLFLDLMGDVFGVSVTVARQHRDAGAPTMYEYQYPPSSDKFTXP 476

QY 484 RTDGDHGDMEYFLFGGPFATGLSMGKALKSLQMKYWANFARTGNGLPCWP--R 541
DB 477 KTVIGDHGDEIFSVFGFLLKGDAPEEVSLSKTVMKFWANFARSGNPNEGGLPHFPFTM 536

QY 542 YNKDEKYLQDFTTRVGMKLEKQKMAFWMSLYQSQRPEK 580
DB 537 YDQEGYLQIGVNTQAAKRLKGEVAFWNDLLSKEAAK 575
```

## RESULT 8

```
US-10-023-515-2
Sequence 2, Application US/10023515
Patent No. 6664091
GENERAL INFORMATION:
APPLICANT: Curtis, Rory A. J.
APPLICANT: Silos-Santiago, Immaculada
TITLE OF INVENTION: 53010, A NOVEL HUMAN CARBOXYLESTERASE
TITLE OF INVENTION: FAMILY MEMBER AND USES THEREOF
FILE REFERENCE: 10448-122001
CURRENT APPLICATION NUMBER: US/10/023,515
CURRENT FILING DATE: 2001-12-18
PRIOR APPLICATION NUMBER: 60/256,369
PRIOR FILING DATE: 2000-12-18
PRIOR APPLICATION NUMBER: 60/279,508
PRIOR FILING DATE: 2001-03-28
NUMBER OF SEQ ID NOS: 6
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 581
TYPE: PRT
ORGANISM: Homo sapiens
US-10-023-515-2
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Query Match 36.8%; Score 1145; DB 4; Length 581;
Best Local Similarity 42.8%; Pred. No. 3.2e-108;
Matches 249; Conservative 91; Mismatches 186; Indels 56; Gaps 13;
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QY 11 LPSLLPTAGAGSMRWILCWSLTCLMAQTALG-----ALHTKRPQVVKYGTLOGKQ 63
DB 1 MPQGLTSSASQW-----CFFLIL-----QPLLGHQWKGTPSAEGPQRNTRLGWTGKQ 50

QY 64 MEV--GKTPIQVFLGVPSRPPGLILRAPPPEPPKGIKIRDTATPPGCLQESWGQLAS 121
DB 51 VTVLGSPVNVNVLGVFPFAAPPLGSLRFTNPPQSPWDNLRATSYPNLCLQNSWLLLD 110

QY 122 MYVSTRERYKWLRFSEDCLYLNVAAPAPGDPQLPVNWPFGGAFIVGAASSYEGSDLA 181
DB 111 QHM-LKVHYPKFVSEDCLYLNVAAPAHADTGSKLPVWVFGGAFKTSASIFDGSALA 169

QY 182 AREKVVLPVQLRILGIFGFLSTDDSHARGNWGLDQMAALRWQENIAAFGGDGNVTLP 241
DB 170 AYEDVLVVVVQYRLGIFGFTTWDQHPGNWAFKQQAALSWVQKNIIEFFGGDPSSVTF 229

QY 242 GOSAGAMSTGLMWSPLASGLFHRAISQSGTALFRL-----FITSNPLKVAKKVAHLAC 236
DB 230 GSGAGAISVSSLILSPMAKGLFHKAIMESGVAIIPYLEAHDEYKESDQLV---VAHPCGN 286

QY 297 NNNSTQILVNCILRALSGLTKVMRSNKRFLQLNFPQDPBEI IWSMSPVVDGVVIPPDDPLV 356
DB 287 NASDSEALLRCLTRKPSKELLTSQTK-----SFTRVVDGAFPPNEPLD 331

QY 357 LITQKVSVPVLLGVNNLEFNWLLPYIMKFLPNQRKKEITIKMLNSTLTLLNITKEQ 416
DB 332 LLSQKAFKAIPSIIGVNNHECGFLLP-MKEAPEILSGSNKSLALHLI---QNILHIPQY 387

QY 417 VPLVVEEYLDNVNEHDKWLRNRMDIVQDATFVYATLQTAHYHRDAGLPVLYEPEHHA 476
DB 388 LHLVANEYPH--DKHSLTEIRSDLSLDLGDVFFVFPALITARYHRDAGAPVYFEPFRHP 445

QY 477 RGI-IVKPRITGADGDEMYFLFGGPFATG-----LSMGKALKSLQMKYWANFARTG 529
DB 446 QCPEDTKPAFVKADHAEVRFVFGGAFKGDIVMEGATEEBEKLRSKMKYWTATFARTG 505

QY 530 NPNDGNLPCWPYRNKDEKYLQDFTTRVGMKLEKQKMAFWMS 571
DB 506 NPNGNDSLWPAYNLTEQYLQDLNMSLQRLKPRVDFWTS 547
```

## RESULT 9

US-09-264-737-1

; Sequence 1, Application US/09264737A  
; Patent No. 6107549  
; GENERAL INFORMATION:  
; APPLICANT: Feng, Paul C.C.  
; APPLICANT: Ruff, Thomas G.  
; TITLE OF INVENTION: Engineering Plant Resistance to Pyridines via  
; TITLE OF INVENTION: Expression of Esterase Enzymes  
; FILE REFERENCE: 38-21(10551) RLE3 Pyridine Tolerance  
; CURRENT APPLICATION NUMBER: US/09/264,737A  
; CURRENT FILING DATE: 1999-03-09  
; EARLIER APPLICATION NUMBER: 60/077,377  
; EARLIER FILING DATE: 1998-03-10  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 539  
; TYPE: PRT  
; ORGANISM: Rabbit  
US-09-264-737-1

Query Match 36.4%; Score 1133; DB 3; Length 539;  
Best Local Similarity 41.3%; Pred. No. 4.8e-107;  
Matches 227; Conservative 115; Mismatches 177; Indels 30; Gaps 10;  
  
QY 46 HTRKPOVTKYGTLOGKQMHVGK-----TPIQVFLGVPPSRKPLGILRFPAPPEPP 97  
DB 1 HPSAPPVW---DIVKGVL--GKFSLEGFAQVAVFLGVPAKPLGSLRFPAPQAPAS 55  
  
QY 98 WKGIKDATTPPGCLOE--SWGOLASMYSTRERYKWLRFSEDCLYNVYAPAPGDPQ 155  
DB 56 WSHVKNNTSYPPMCCSDAVSGHMLSELFTNRKENIP-LKFSDCLYNLYTPADLTKGR 114  
  
QY 156 LPVWVFPFGAFVGAASSYEGSDLAAREKVLVFLQRLGIFGFLSTDSDHARGNWGLL 215  
DB 115 LPVWVHGGGLVGGASTYDGLALSAHENVVVTIYRLGIGGFGFNIDE-----L 166  
  
QY 216 DOMAALRWQNTAAAFGGDPGNVTLFGOSAGAMSISGLMMSPLASGLFHRALSQSGLTF 275  
DB 167 FLVAVNRWQNTANFGDPSVTIFGESAGQSVILLPLTKNLFHRAISESGVALL 226  
  
QY 276 RLFTSNPLKAKKVAHLACNNHSTQILVNCRLALSGTKVMKSVNKRFLQNLNFORDE 335  
DB 227 SSLFRKNTKSLAEKIAIEAGCKTTTSAVMVHCLRQKTEELMEVTLKMKFMALDLVGD 286  
  
QY 336 ELIWSMSPVVDVVPDPLVLTQGVSSVPLVGNLLEFNLLP-YIMKPLANQAM 394  
DB 287 ENTAFLTVIDGVLKPAEIEEYKYNMPLVWVGINQOEFGWIIIPMQMLGYPLSEGLK 346  
  
QY 395 RKETITKQLMSTRLLNITKEQVPLVVEYLDNVNHDKMLRNRMMDIVQDATFVYATL 454  
DB 347 DQKTATELLMKSYPVNVSKELTPVATEKYLGGTDPVK--KDLFLDLADLLFGVPSV 404  
  
QY 455 QTAHYHRDAGLPVLYEFEH--ARGIIVKPRDTGADHGDMEYFLFGPPFATGLSMGKEKA 513  
DB 405 NVARHHRDAGAPTMYERYRPSFSDMRPKTVIGDHGDEIFSVLGAFLKEGATEEIK 464  
  
QY 514 LSLQMKMYANFARTGNPDGNLPCWPRYNKDEKYLQDLDTTRVGMKLEKKNAPWMSLY 573  
DB 465 LSKVMKYANFARNGNPNGEGLPQWPAYDYKGYLQIGATTQAAOKLKDKEVAFVETLW 524  
  
QY 574 --QSORPEK 580  
DB 525 AKEAARPE 533

RESULT 10  
US-09-595-682B-28  
; Sequence 28, Application US/09595682B  
; Patent No. 6800483  
; GENERAL INFORMATION:  
; APPLICANT: Danks, Mary K.  
; APPLICANT: Potter, Philip M.  
; APPLICANT: Houghton, Peter J.

; TITLE OF INVENTION: Compositions and Methods for Sensitizing and Inhibiting Growth o  
; TITLE OF INVENTION: Tumor Cells  
; FILE REFERENCE: SJ-0005  
; CURRENT APPLICATION NUMBER: US/09/595,682B  
; CURRENT FILING DATE: 2000-01-16  
; PRIOR APPLICATION NUMBER: 60/075,258  
; PRIOR FILING DATE: 1998-02-19  
; PRIOR APPLICATION NUMBER: PCT/US99/03171  
; PRIOR FILING DATE: 1999-02-12  
; NUMBER OF SEQ ID NOS: 30  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 28  
; LENGTH: 559  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-595-682B-28  
  
Query Match 34.8%; Score 1083; DB 4; Length 559;  
Best Local Similarity 40.8%; Pred. No. 7e-102;  
Matches 232; Conservative 94; Mismatches 204; Indels 38; Gaps 10;  
  
QY 27 ILCWSLTLCLMAQTALGALHTKRPQVVKYGTLOGKQMHV--GKTPIQVFLGVPPSRPDL 84  
DB 13 VACGLLLLVRCQ---GQDSASPIRTHHTGQVGLSLVHVKGANAGVQTFGLGIPFAKPL 68  
  
QY 85 GILRFAPPEPPKGIKRDATTYPGCLQESWGQLASMYSTRERYKMLRFSEDCLYNV 144  
DB 69 GELRFAPPEPPESGVRDGTTHPACLDQDLTAVSEFLSQNMTFPPSDMSMEDCLYLSI 128  
  
QY 145 YAPARAPGDPQLPVWVWFPFGAFVGAASSYEGSDLAAREKVLVFLQRLGIFGFLSTD 204  
DB 129 YTPAHSHEGSLNLPVWVHGGALVFGMASLYDGSMLAALENVVVIQVRLGVLFSTG 188  
  
QY 205 DSHARGNWGLLDQMAALRWQNTIAAPGDPGNVTLFGOSAGAMSISGLMMSPLASGLFH 264  
DB 189 DKHATGNWGLDQVAALRWVQNIARFGNPDRTVIFGESAGTSVSSLVWSPISQGLFH 248  
  
QY 265 RAISQSGTALFLFTTSNPLKAKKVAHLACNNHSTQILVNCRLALSGTKVMKSVNKR 324  
DB 249 GAIMESGVALLPGLTASSADVSTVAVNLACDQVDSEALVCLRGKSKKEEILAINKPK 308  
  
QY 325 FLQLNFORDEPBEIWSMSPVVDVVPDPLVLTQGVSSVPLVGNLLEFNLLPVI 384  
DB 309 MI-----PGVVDGVFLPRHPQELLASADPQVPVPSIVGVNNNEFGWILPKV 353  
  
QY 385 MKFPLNRQAMRKETITKMLMSTRLLNITKEQVPLVVEYLDNVNHDKMLRNRMMDI 443  
DB 354 MRYDTQKEMDREASQAALQKMLTLLMLPPTFTGDLLEBEYIGDN--GDPQLQAQFOBM 410  
  
QY 444 VQDATFVYATLQTAHYHRDAGLPVLYEFEHARGI-IVKPRDTGADHGDMEYFL----F 498  
DB 411 MADSMFVTPALQVAHF-QCSRAPVYVFEHQPSWLNKIRPPHMKADHGDDELFPVFSRFF 469  
  
QY 499 GGGPFATGLSMGKEKALSQMKMYANFARTGNPDGNLPCWPRYNKDEKYLQDLDTTRVG 558  
DB 470 GGNVYIKFTE--BEEQLSRKMKMYANFARNGNPNGEGLPWHPLFDQEEQYLQNLQPAVG 527  
  
QY 559 MKLEKKKAPW-----MSLYQSQRPEKQ 581  
DB 528 RALKAHRLQFWKCALPQKIQLELEPEER 555  
  
RESULT 11  
US-09-949-016-6426  
; Sequence 6426, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 6426  
; LENGTH: 559  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-6426

Query Match 34.8%; Score 1083; DB 4; Length 559;

Best Local Similarity 40.8%; Pred. No. 7e-102;

Matches 232; Conservative 94; Mismatches 204; Indels 38; Gaps 10;

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QY 27 ILCWSLTLCMAQTALGALHTKRPQVVKYGTLOGQMHV--GKTIQVFLGVPPFRPPL 84
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 13 VACGLLLLRGQ----GQDSASPIRTTHTGQVLGSLVHVKGANAGVQTFLGIPFAKPL 68
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 85 GILRFAPPPPPKGIKRDATTYPGCLQESWQGLASVYSTRERYKWLRFSDCLYLVN 144
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 69 GPLRFAPPPPPESWGVDRGTTHPAMCLQDLTAVESEFLSQFNMTFPSDSMSDCLYLSI 128
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 145 YAPARAPGDPQLPVMVMPFGAFIVGAASYEGSDLAAREKVVLVFLQRLHGFGLSTD 204
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 129 YTPAHSHGSLNPLVMIHGGALVFGMASLYDGSMLAALENVVVIIOYRLGLVGLFFSTG 188
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 205 DSHARGNWGLLDQMAALRWQENIAAFGDPGNVTILFGOSAGAMSISGLMMSPLASGLFH 264
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 189 DKHATGNWGYLDQVAALRWQENIAHFGGPNDRVTIFGESAGTSSVSLVSPISQGLFH 248
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 265 RAISQSGTALFRLLFTSNPLKVAKVLAHLAGCNHNSTOILVNCRLALSGTKVMRVSNKMR 324
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 249 GAIMESGVALLPGLIASSADVITVTVANLSACQVDSEALVGLCRGSKKEEILAINKPKK 308
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 325 FLQNLQRPDPEEIIWSMSPVVDGWIIPDDPLVLLTQGVSSVYLLGVNLFNLLPYI 384
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 309 MI-----PGVVDGVFLPRHPQELLASADPQVPVSIYGVNNEFGWLIPIKV 353
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 385 MKFPLNRQMRKETTITKMLWSTRTLLNITKEQVPLVVEEYL-DNVNEHDKMLRNMDI 443
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 354 MRIYDTQKMDREASQAALQKMLTLLMPTTGDLLEEEYIGN---GDPQTLOAQFQEM 410
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 444 VQDATFVYATLQTAHYHRDAGLVLYEFEEHARGI-IVKPRTDGADHGDMEYFL----F 498
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 411 MADSMFVIIPALQVAHF-QCSRAPVYFYEFQHPQSWLKNIRPPHMKADHGDDELFPVFRSFF 469
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 499 GGPFPATGLSMGKEKALSQWKYWANFARTGNPDGNLPCWPRYNKDEKYLQDLDTTRVG 558
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 470 GGNVYIKFTE--BEEQLSRKMKYWANFARNGNPNGBGLPHWPLFDQEEQYLQNLQPAVG 527
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 559 MKLKEKMAFW-----MSLYQSQRPEKQ 581
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 528 RALKAHRLQFWKKALPKQIQELEEEPER 555
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## RESULT 12

US-09-949-016-9670  
; Sequence 9670, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 9670  
; LENGTH: 577  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-9670

Query Match 34.8%; Score 1083; DB 4; Length 577;

Best Local Similarity 40.8%; Pred. No. 7.3e-102;

Matches 232; Conservative 94; Mismatches 204; Indels 38; Gaps 10;

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QY 27 ILCWSLTLCMAQTALGALHTKRPQVVKYGTLOGQMHV--GKTIQVFLGVPPFRPPL 84
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 31 VACGLLLLRGQ----GQDSASPIRTTHTGQVLGSLVHVKGANAGVQTFLGIPFAKPL 86
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 85 GILRFAPPPPPKGIKRDATTYPGCLQESWQGLASVYSTRERYKWLRFSDCLYLVN 144
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 87 GPLRFAPPPPPESWGVDRGTTHPAMCLQDLTAVESEFLSQFNMTFPSDSMSDCLYLSI 146
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 145 YAPARAPGDPQLPVMVMPFGAFIVGAASYEGSDLAAREKVVLVFLQRLHGFGLSTD 204
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 147 YTPAHSHGSLNPLVMIHGGALVFGMASLYDGSMLAALENVVVIIOYRLGLVGLFFSTG 206
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 205 DSHARGNWGLLDQMAALRWQENIAAFGDPGNVTILFGOSAGAMSISGLMMSPLASGLFH 264
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 207 DKHATGNWGYLDQVAALRWQENIAHFGGPNDRVTIFGESAGTSSVSLVSPISQGLFH 266
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 265 RAISQSGTALFRLLFTSNPLKVAKVLAHLAGCNHNSTOILVNCRLALSGTKVMRVSNKMR 324
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 267 GAIMESGVALLPGLIASSADVITVTVANLSACQVDSEALVGLCRGSKKEEILAINKPKK 326
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 325 FLQNLQRPDPEEIIWSMSPVVDGWIIPDDPLVLLTQGVSSVYLLGVNLFNLLPYI 384
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 327 MI-----PGVVDGVFLPRHPQELLASADPQVPVSIYGVNNEFGWLIPIKV 371
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 385 MKFPLNRQMRKETTITKMLWSTRTLLNITKEQVPLVVEEYL-DNVNEHDKMLRNMDI 443
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 372 MRIYDTQKMDREASQAALQKMLTLLMPTTGDLLEEEYIGN---GDPQTLOAQFQEM 428
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 444 VQDATFVYATLQTAHYHRDAGLVLYEFEEHARGI-IVKPRTDGADHGDMEYFL----F 498
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Db 429 MADSMFVIIPALQVAHF-QCSRAPVYFYEFQHPQSWLKNIRPPHMKADHGDDELFPVFRSFF 487
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QY 499 GGPFPATGLSMGKEKALSQWKYWANFARTGNPDGNLPCWPRYNKDEKYLQDLDTTRVG 558
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Db 488 GGNVYIKFTE--BEEQLSRKMKYWANFARNGNPNGBGLPHWPLFDQEEQYLQNLQPAVG 545
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 559 MKLKEKMAFW-----MSLYQSQRPEKQ 581
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 546 RALKAHRLQFWKKALPKQIQELEEEPER 573
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## RESULT 13

US-08-446-100-26  
; Sequence 26, Application US/08446100  
; Patent No. 6001625  
; GENERAL INFORMATION:  
; APPLICANT: Broomfield, Clarence A  
; APPLICANT: Millard, Charles B  
; APPLICANT: Lockridge, Oksana  
; TITLE OF INVENTION: Site-Directed Mutagenesis of Esterases  
; NUMBER OF SEQUENCES: 31  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hendricks and Assoc.  
; STREET: 9669 A Main Street, P.O. Box 2509  
; CITY: Fairfax  
; STATE: VA  
; COUNTRY: US  
; ZIP: 22031

```
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/446,100
; FILING DATE: 19-MAY-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Hendricks, Glenna
; REGISTRATION NUMBER: 32,535
; REFERENCE/DOCKET NUMBER: broomfield
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 425-4250
; TELEFAX: (703) 425-2767
; INFORMATION FOR SEQ ID NO: 26:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 454 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
; FRAGMENT TYPE: N-terminal
; ORIGINAL SOURCE:
; ORGANISM: human esterases
;
; US-08-446-100-26

Query Match 31.6%; Score 983.5; DB 3; Length 454;
Best Local Similarity 43.6%; Pred. No. 8e-92;
Matches 196; Conservative 91; Mismatches 158; Indels 5; Gaps 4;

QY 137 EDCILYLVYAPARAGDPQLPVWVFPFGAFIVCAASSYEGSDLAAREKVVLFLOHRLG 196
DB 1 ECHLYLNIYTPADLTCKNRLPVWVWTHGGGLMVGAASYDGLAALAAHENVVVTIQYRLG 60
QY 197 IFGLSTDDSHARGNGLLDQMAALRWQENIAAFGGDPGNVTLFGSAGAMSISGLMWS 256
DB 61 IWGFSTGDEHSGNWHGLDQVAALRWQDNIAFGNPGSVTFIAGESAGSVSVLVLS 120
QY 257 PLASGLFHRAISOGTALFRLFITSNPLK-VAKKVAHLACNNHSTQILVNCRLALSGTK 315
DB 121 PLAKNLFHRAISSEGVALTSLVKKGVDPKPLAQIAITAGCKTTTSAAMVHCLRQKTEE 180
QY 316 VMRSNKRFLQNFQDPDEIISMSPVVDGVVDPDDPLVLTQGVKSVSPYLLGVNVL 375
DB 181 LLETTLKIGNSYLWYRETQREESTLLGTVIDGMLLKTPEELQRENFHTVPTVMVGINKQ 240
QY 376 EFNWLLP-YIMKFLPNRQAMRKETITKMLWSTRLLNITKEQVPLVVEEYLDNVNEHDWK 434
DB 241 EFGWLLPQMLSVPLSEGQDQKTAMSLGSPILPFAIAKELIPEATEKYLGTGTD--DTV 298
QY 435 MLNRNMDIVQDATFVYATLQTAHYHRDAGLPVLYEFEHH-ARGIIVKPRPTDGADHGE 493
DB 299 KKXDLILLDIADVMFGVPSVIVARNHRDAGAPTYMVEFQYRPSFSSDMKPKTVIGDHGE 358
QY 494 MYFLFGGPPATGLSMGKEKALSLOMKYWANFARTGNPDGNLPCWPRYNKDKYLQLODF 553
DB 359 LFSVFGAPFLKEGASEEIRLSKMWKFWANFARNGNPNKGKGLPHWPEYNQKEGYLQIGA 418
QY 554 TTRVGMKLKEKMAFWMSLYQSORPEKQ 563
DB 419 NTQAQKLKDEKVAFTNLPFAKKAKEPPQ 448
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RESULT 14

US-08-446-100-30

; Sequence 30, Application US/08446100

; Patent No. 6001625

; GENERAL INFORMATION:

; APPLICANT: Broomfield, Clarence A

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;
; APPLICANT: Millard, Charles B
; APPLICANT: Lockridge, Oksana
; TITLE OF INVENTION: Site-Directed Mutagenesis of Esterases
; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hendricks and Assoc.
; STREET: 9669 A Main Street, P.O. Box 2509
; CITY: Fairfax
; STATE: VA
; COUNTRY: US
; ZIP: 22031
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/446,100
; FILING DATE: 19-MAY-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Hendricks, Glenna
; REGISTRATION NUMBER: 32,535
; REFERENCE/DOCKET NUMBER: broomfield
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 425-4250
; TELEFAX: (703) 425-2767
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 454 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
; FRAGMENT TYPE: N-terminal
; ORIGINAL SOURCE:
; ORGANISM: human esterases
;
; US-08-446-100-30
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Query Match 31.6%; Score 983.5; DB 3; Length 454;

Best Local Similarity 43.6%; Pred. No. 8e-92;

Matches 196; Conservative 91; Mismatches 158; Indels 5; Gaps 4;

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QY 137 EDCILYLVYAPARAGDPQLPVWVFPFGAFIVCAASSYEGSDLAAREKVVLFLOHRLG 196
DB 1 ECHLYLNIYTPADLTCKNRLPVWVWTHGGGLMVGAASYDGLAALAAHENVVVTIQYRLG 60
QY 197 IFGLSTDDSHARGNGLLDQMAALRWQENIAAFGGDPGNVTLFGSAGAMSISGLMWS 256
DB 61 IWGFSTGDEHSGNWHGLDQVAALRWQDNIAFGNPGSVTFIAGESAGSVSVLVLS 120
QY 257 PLASGLFHRAISOGTALFRLFITSNPLK-VAKKVAHLACNNHSTQILVNCRLALSGTK 315
DB 121 PLAKNLFHRAISSEGVALTSLVKKGVDPKPLAQIAITAGCKTTTSAAMVHCLRQKTEE 180
QY 316 VMRSNKRFLQNFQDPDEIISMSPVVDGVVDPDDPLVLTQGVKSVSPYLLGVNVL 375
DB 181 LLETTLKIGNSYLWYRETQREESTLLGTVIDGMLLKTPEELQRENFHTVPTVMVGINKQ 240
QY 376 EFNWLLP-YIMKFLPNRQAMRKETITKMLWSTRLLNITKEQVPLVVEEYLDNVNEHDWK 434
DB 241 EFGWLLPQMLSVPLSEGQDQKTAMSLGSPILPFAIAKELIPEATEKYLGTGTD--DTV 298
QY 435 MLNRNMDIVQDATFVYATLQTAHYHRDAGLPVLYEFEHH-ARGIIVKPRPTDGADHGE 493
DB 299 KKXDLILLDIADVMFGVPSVIVARNHRDAGAPTYMVEFQYRPSFSSDMKPKTVIGDHGE 358
QY 494 MYFLFGGPPATGLSMGKEKALSLOMKYWANFARTGNPDGNLPCWPRYNKDKYLQLODF 553
DB 359 LFSVFGAPFLKEGASEEIRLSKMWKFWANFARNGNPNKGKGLPHWPEYNQKEGYLQIGA 418
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QY 554 TTRVGMKLEKKWAFWMSLYQSOPPEKQRO 583  
Db 419 NTQAAQKLEKKEVAFWTLNLPFAKXAVEKPPQ 448

RESULT 15  
US-08-446-100-31  
; Sequence 31, Application US/08446100  
; Patent No. 6001625  
; GENERAL INFORMATION:  
; APPLICANT: Broomfield, Clarence A  
; APPLICANT: Millard, Charles B  
; APPLICANT: Lockridge, Oksana  
; TITLE OF INVENTION: Site-Directed Mutagenesis of Esterases  
; NUMBER OF SEQUENCES: 31  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hendricks and Assoc.  
; STREET: 9669 A Main Street, P.O. Box 2509  
; CITY: Fairfax  
; STATE: VA  
; COUNTRY: US  
; ZIP: 22031  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/446,100  
; FILING DATE: 19-MAY-1995  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Hendricks, Glenna  
; REGISTRATION NUMBER: 32,535  
; REFERENCE/DOCKET NUMBER: broomfield  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 425-4250  
; TELEFAX: (703) 425-2767  
; INFORMATION FOR SEQ ID NO: 31:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 454 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: unknown  
; MOLECULE TYPE: protein  
; HYPOTHETICAL: YES  
; ANTI-SENSE: YES  
; FRAGMENT TYPE: N-terminal  
; ORIGINAL SOURCE:  
; ORGANISM: human esterases  
; US-08-446-100-31

Query Match 31.6%; Score 983.5; DB 3; Length 454;  
Best Local Similarity 43.6%; Pred. No. 8e-92;  
Matches 196; Conservative 91; Mismatches 158; Indels 5; Gaps 4;  
QY 137 EDCLYLVNYPARAGDPQLPVWVPPGAFVGAASSYEGSDLAAREKVVLVFLQHLRG 196  
Db 1 EHCILYNIYPADLTCKNRLPVWVHGGGLMGAASITDGLALAHENVVVTIQLRLG 60  
QY 197 IFGFLSTDDSHARGNWGLLDQMAALRWVQENIAAFGGDPGNVTLFGQAGAMSISGLMMS 256  
Db 61 IWGFFSTGDEHSGRWGHLDOVAALRWVQDNIAFGNPGSVTFIGESAGESVSVLVLS 120  
QY 257 PLASGLFHRAISOGTALFLFTSNPLK-VAKKVAHLACNHNSTOILVNCIRALSGTK 315  
Db 121 PLAKNLFHRAISESGVALTSVLVKGDVKKPLAEQIAITAGCKTTTSAAMVHCLRQKTEE 180  
QY 316 VMEVSNKMRFLQNFQDPPEIIVMSMSPVVDGVIPDDPLVLLTQCKVSSVPYLLGVNLL 375  
Db 181 LLETTLKIGNSLYMTRETQRESHLLGTVIDGMLLTKTPEELQRENFHTVPYVWVINKQ 240  
QY 376 EFNWLLP-YIMKFLNRAQMRKETITKMLWSTRTLLNITKEQVPLVVEEYLDNVNHDWK 434

Db 241 EFGWLPQMQLMSYFSLSEGQDDQKTAMSLLSGSPILPFAIAKELIPEATEKTLGGTD--DTV 298  
QY 435 MLNRNMMDIVQDATFVYATLQTAHYHRDAGLPPVLYEFEHH-ARGIIIVKPRITDGAHDGDE 493  
Db 299 KKCDLILDLIADVMFGVPSVIVARNHRDAGAPTMYEFQYRPSFSSDMKPKTVIGDHGDE 358  
QY 494 MYFLFGGPPFATGLSMGKEKALSLOMKYWANPARTGNPDNGNLPCHWPRYKDEKYLQDF 553  
Db 359 LFSVFGAPFLKEGASBEEIRLSKVMKFWANFARNGNPNKGKLPHPWPEYNQKEGYLQIGA 418  
QY 554 TTRVGMKLEKKWAFWMSLYQSOPPEKQRO 583  
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Job time : 32 secs

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: May 10, 2005, 16:36:12 ; Search time 441 Seconds  
(without alignments)  
441.773 Million cell updates/sec

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Gapop 10.0 , Gapext 0.5

Searched: 1428581 seqs, 333598853 residues

Total number of hits satisfying chosen parameters: 1428581

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	3112	100.0	584	16 US-10-343-593-10	Sequence 10, Appl
3	2026.5	65.1	545	9 US-09-978-295A-254	Sequence 254, App
4	2026.5	65.1	545	9 US-09-978-697-254	Sequence 254, App
5	2026.5	65.1	545	9 US-09-978-192A-254	Sequence 254, App
6	2026.5	65.1	545	9 US-09-999-832A-254	Sequence 254, App
7	2026.5	65.1	545	10 US-09-978-189-254	Sequence 254, App
8	2026.5	65.1	545	10 US-09-978-608A-254	Sequence 254, App
9	2026.5	65.1	545	10 US-09-978-585A-254	Sequence 254, App
10	2026.5	65.1	545	10 US-09-978-191A-254	Sequence 254, App
11	2026.5	65.1	545	10 US-09-978-403A-254	Sequence 254, App
12	2026.5	65.1	545	10 US-09-978-564A-254	Sequence 254, App
13	2026.5	65.1	545	10 US-09-999-833A-254	Sequence 254, App

14	2026.5	65.1	545	10 US-09-981-915A-254	Sequence 254, App
15	2026.5	65.1	545	10 US-09-978-824-254	Sequence 254, App
16	2026.5	65.1	545	10 US-09-918-585A-254	Sequence 254, App
17	2026.5	65.1	545	10 US-09-999-834A-254	Sequence 254, App
18	2026.5	65.1	545	10 US-09-978-423A-254	Sequence 254, App
19	2026.5	65.1	545	10 US-09-978-193A-254	Sequence 254, App
20	2026.5	65.1	545	10 US-09-999-830A-254	Sequence 254, App
21	2026.5	65.1	545	10 US-09-978-757A-254	Sequence 254, App
22	2026.5	65.1	545	10 US-09-978-187B-254	Sequence 254, App
23	2026.5	65.1	545	10 US-09-978-643A-254	Sequence 254, App
24	2026.5	65.1	545	10 US-09-978-375A-254	Sequence 254, App
25	2026.5	65.1	545	10 US-09-978-298A-254	Sequence 254, App
26	2026.5	65.1	545	10 US-09-978-188A-254	Sequence 254, App
27	2026.5	65.1	545	10 US-09-978-681A-254	Sequence 254, App
28	2026.5	65.1	545	10 US-09-978-194A-254	Sequence 254, App
29	2026.5	65.1	545	10 US-09-999-829A-254	Sequence 254, App
30	2026.5	65.1	545	10 US-09-978-299A-254	Sequence 254, App
31	2026.5	65.1	545	10 US-09-978-544A-254	Sequence 254, App
32	2026.5	65.1	545	10 US-09-978-665A-254	Sequence 254, App
33	2026.5	65.1	545	10 US-09-978-802A-254	Sequence 254, App
34	2026.5	65.1	545	11 US-09-999-831A-254	Sequence 254, App
35	2026.5	65.1	545	13 US-10-052-586-58	Sequence 58, Appl
36	2026.5	65.1	545	14 US-10-174-590-58	Sequence 58, Appl
37	2026.5	65.1	545	14 US-10-176-758-58	Sequence 58, Appl
38	2026.5	65.1	545	14 US-10-175-737-58	Sequence 58, Appl
39	2026.5	65.1	545	14 US-10-174-581-58	Sequence 58, Appl
40	2026.5	65.1	545	14 US-10-176-483-58	Sequence 58, Appl
41	2026.5	65.1	545	14 US-10-176-749-58	Sequence 58, Appl
42	2026.5	65.1	545	14 US-10-176-914-58	Sequence 58, Appl
43	2026.5	65.1	545	14 US-10-176-915-58	Sequence 58, Appl
44	2026.5	65.1	545	14 US-10-173-706-58	Sequence 58, Appl
45	2026.5	65.1	545	14 US-10-175-738-58	Sequence 58, Appl

ALIGNMENTS

RESULT 1  
US-10-001-227-2  
; Sequence 2, Application US/10001227  
; Publication No. US20030166900A1  
; GENERAL INFORMATION:  
; APPLICANT: KAPPELLER-LIBERMANN  
; APPLICANT: SILOS-SANTIAGO  
; TITLE OF INVENTION: METHODS OF USING 18903 TO TREAT PAIN AND  
; TITLE OF INVENTION: PAIN-RELATED DISORDERS  
; FILE REFERENCE: MNI-199  
; CURRENT APPLICATION NUMBER: US/10/001,227  
; CURRENT FILING DATE: 2001-11-30  
; PRIOR APPLICATION NUMBER: 60/250929  
; PRIOR FILING DATE: 2000-11-30  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 584  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-001-227-2

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Best Local Similarity	100.0%;	Pred. No. 4.8e-282;		
Matches 584;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
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Db	61	GKQMHVKGKTPIQVFLGVFPFSRPLGILRFAPEPPPPKGIKIRDTATYPPCCLQESWGQLA	120	
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Qy 181 AAREKVVLVFLQHRGLGFGFLSTDDSHARGNGLLDQMAALRWVQENIAAFGGDPGNVTL 240  
Db 181 AAREKVVLVFLQHRGLGFGFLSTDDSHARGNGLLDQMAALRWVQENIAAFGGDPGNVTL 240  
Qy 241 FGOSAGAMSISGLMSPSLASGLFHRAISQSGTALFRLFITSNPLKVAKKVAHLAGCNHNS 300  
Db 241 FGOSAGAMSISGLMSPSLASGLFHRAISQSGTALFRLFITSNPLKVAKKVAHLAGCNHNS 300  
Qy 301 TQILVNCRLALSGTKVMRVSNKMRFLQNLNFORPDEEIIWMSPPVVDGVIIPDDPLVLLTQ 360  
Db 301 TQILVNCRLALSGTKVMRVSNKMRFLQNLNFORPDEEIIWMSPPVVDGVIIPDDPLVLLTQ 360  
Qy 361 GKVSVPYLLGVNLEFNWLLPYIMKFPPLNRQAMRKETITKMLWSTRTLLNITKEQVPLV 420  
Db 361 GKVSVPYLLGVNLEFNWLLPYIMKFPPLNRQAMRKETITKMLWSTRTLLNITKEQVPLV 420  
Qy 421 VEEYLDNVNEHDKMLNRNMDIVQDATFYATLQTAHYHRDAGLPVLYEYFEHHARGII 480  
Db 421 VEEYLDNVNEHDKMLNRNMDIVQDATFYATLQTAHYHRDAGLPVLYEYFEHHARGII 480  
Qy 481 VKPRTDAGHDGDEMYFLFGGPFATGLSMGKEKALSQMMKYWANFARTGNPNDGNLPCWP 540  
Db 481 VKPRTDAGHDGDEMYFLFGGPFATGLSMGKEKALSQMMKYWANFARTGNPNDGNLPCWP 540  
Qy 541 RYNKDEKYLQDFTTRVGMKLEKKWAFWMSLYQSQRPEKORQF 584  
Db 541 RYNKDEKYLQDFTTRVGMKLEKKWAFWMSLYQSQRPEKORQF 584

## RESULT 2

US-10-343-593-10  
; Sequence 10, Application US/10343593  
; Publication No. US20040110259A1  
; GENERAL INFORMATION:  
; APPLICANT: INCYTE GENOMICS, INC.; BAUGHN, Mariah R.;  
; APPLICANT: BRUNS, Christopher M.; DAS, Debopriya;  
; APPLICANT: DELEGANE, Angelo M.; DING, Li;  
; APPLICANT: ELLIOT, Vicki S.; GANDHI, Ameena R.;  
; APPLICANT: GRIFFIN, Jennifer A.; HAFALIA, April J.A.;  
; APPLICANT: KHAN, Farrah A.; LAL, Preeti G.;  
; APPLICANT: LEE, Sally; LU, Dyung Aina M.;  
; APPLICANT: LU, Yan; ARVIZU, Chandra S.;  
; APPLICANT: RANJANWALA, Madhusudan M.; TANG, Y. Tom;  
; APPLICANT: THANGAVELU, Kavitha; THORNTON, Michael;  
; APPLICANT: TRIBOULEY, Catherine M.; CHAWLA, Narinder K.;  
; APPLICANT: WARREN, Bridget A.; YANG, Junming;  
; APPLICANT: YAO, Monique G.; YUE, Henry  
; TITLE OF INVENTION: DRUG METABOLIZING ENZYMES  
; FILE REFERENCE: PI-0185 USN  
; CURRENT APPLICATION NUMBER: US/10/343,593  
; PRIOR FILING DATE: 2003-01-29  
; PRIOR APPLICATION NUMBER: US 60/223,055  
; PRIOR FILING DATE: 2000-08-04  
; PRIOR APPLICATION NUMBER: US 60/224,728  
; PRIOR FILING DATE: 2000-08-11  
; PRIOR APPLICATION NUMBER: US 60/226,440  
; PRIOR FILING DATE: 2000-08-18  
; PRIOR APPLICATION NUMBER: US 60/228,067  
; PRIOR FILING DATE: 2000-08-24  
; PRIOR APPLICATION NUMBER: US 60/230,063  
; PRIOR FILING DATE: 2000-08-31  
; PRIOR APPLICATION NUMBER: US 60/232,244  
; PRIOR FILING DATE: 2000-09-13  
; PRIOR APPLICATION NUMBER: US 60/234,269  
; PRIOR FILING DATE: 2000-09-20  
; NUMBER OF SEQ ID NOS: 38  
; SOFTWARE: PERL Program  
; SEQ ID NO 10  
; LENGTH: 584  
; TYPE: PRT

; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No: 7478588CD1  
US-10-343-593-10

Query Match 100.0%; Score 3112; DB 16; Length 584;  
Best Local Similarity 100.0%; Pred. No. 4.8e-282;  
Matches 584; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MESTVLPSTVLSLLPTAGAGSMRWILCWSLTCLCMAQTALGALTHTKRPQVVKYKGTGLQ 60  
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Db 121 SMYSTRERYKWLRFSEDCLYLNYPAPAPGDPQLPVMVWFFGGAFIVGAASSYEGSDL 180  
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Db 181 AAREKVVLVFLQHRGLGFGFLSTDDSHARGNGLLDQMAALRWVQENIAAFGGDPGNVTL 240  
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Db 241 FGOSAGAMSISGLMSPSLASGLFHRAISQSGTALFRLFITSNPLKVAKKVAHLAGCNHNS 300  
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Db 301 TQILVNCRLALSGTKVMRVSNKMRFLQNLNFORPDEEIIWMSPPVVDGVIIPDDPLVLLTQ 360  
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Db 361 GKVSVPYLLGVNLEFNWLLPYIMKFPPLNRQAMRKETITKMLWSTRTLLNITKEQVPLV 420  
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Db 421 VEEYLDNVNEHDKMLNRNMDIVQDATFYATLQTAHYHRDAGLPVLYEYFEHHARGII 480  
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## RESULT 3

US-09-978-295A-254  
; Sequence 254, Application US/09978295A  
; Patent No. US20020156006A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Kljavin, Ivar J.

APPLICANT: Kuo, Sophia S.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James;  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Shelton, David L.  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2630P1C11  
CURRENT APPLICATION NUMBER: US/09/978,295A  
PRIORITY FILING DATE: 2001-10-15  
PRIOR APPLICATION NUMBER: 09/918585  
PRIOR FILING DATE: 2001-07-30  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/064249  
PRIOR FILING DATE: 1997-11-03  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
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PRIOR APPLICATION NUMBER: 60/077450  
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PRIOR APPLICATION NUMBER: 60/079920  
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PRIOR APPLICATION NUMBER: 60/081070  
PRIOR FILING DATE: 1998-04-08  
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PRIOR APPLICATION NUMBER: 60/081071  
PRIOR FILING DATE: 1998-04-08  
PRIOR APPLICATION NUMBER: 60/081195  
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PRIOR APPLICATION NUMBER: 60/081203  
PRIOR FILING DATE: 1998-04-09  
PRIOR APPLICATION NUMBER: 60/081229  
PRIOR FILING DATE: 1998-04-09  
PRIOR APPLICATION NUMBER: 60/081955  
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PRIOR APPLICATION NUMBER: 60/081817  
PRIOR FILING DATE: 1998-04-15  
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PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/081952  
PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/081838  
PRIOR FILING DATE: 1998-04-15  
PRIOR APPLICATION NUMBER: 60/082568  
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PRIOR APPLICATION NUMBER: 60/085580  
PRIOR FILING DATE: 1998-05-15  
PRIOR APPLICATION NUMBER: 60/085573  
PRIOR FILING DATE: 1998-05-15  
PRIOR APPLICATION NUMBER: 60/085704  
PRIOR FILING DATE: 1998-05-15  
PRIOR APPLICATION NUMBER: 60/085697

Query Match 65.1%; Score 2026.5; DB 9; Length 545;  
Best Local Similarity 80.3%; Pred. No. 1.9e-180;  
Matches 399; Conservative 5; Mismatches 26; Indels 67; Gaps 2;  
QY 6 LPSTVLPSSLPTAGAGWNRWILCWSLTCLMAQTALGALHTRKPPQVVTYKYGTLQKQMH 65  
DB 47 LGSTSTPAITTSAPSSGFGTLGFSKPKATGTLGGTNTGALHTRKPPQVVTYKYGTLQKQMH 106  
QY 66 VGKTPQVLFVGFSPRPPLGILFAPPEPEPWKGIKRDATYPPG----- 110  
DB 107 VGKTPQVLFVGFSPRPPLGILFAPPEPEPWKGIKRDATYPPGWSLALSPGWSAVARS 166  
QY 111 -----CLQESWGQLASMYSTRERYKWLRFSEDCLYLNVY 145  
DB 167 RLTSASRVQASLLPQLSVWGYRCIQESWGQLASMYSTRERYKWLRFSEDCLYLNVY 226  
QY 146 APAPAGDPOLPVWVPFGAFIVGAASSYEGSDLAAREKVVLVFLQHLGIFGFLSTDD 205  
DB 227 APAPAGDPOLPVWVPFGAFIVGAASSYEGSDLAAREKVVLVFLQHLGIFGFLSTDD 286  
QY 206 SHARGWGLDDQAALRWQENIAAAGDDPGNTVLFQSGAGAMSISGLMSPPLASGLFHR 265  
DB 287 SHARGWGLDDQAALRWQENIAAAGDDPGNTVLFQSGAGAMSISGLMSPPLASGLFHR 346  
QY 266 AISQSGTALFRPITTSNPLKVAKKVAHLACNHNSTQILVNCRLALSGTKVMKRVSNKMR 325  
DB 347 AISQSGTALFRPITTSNPLKVAKKVAHLACNHNSTQILVNCRLALSGTKVMKRVSNKMR 406  
QY 326 LQNFORDPBEIITWSMSPVVDGVIPDDPLVLLTQGVSSVPVLLGVNNLEFNWLLPYIM 385  
DB 407 LQNFORDPBEIITWSMSPVVDGVIPDDPLVLLTQGVSSVPVLLGVNNLEFNWLLPY-- 464  
QY 386 KFLNRCQWKEITTKMLWSTRLLNTKEQVPLVVEEYLDNNEHDKMLNRNMDIVQ 445  
DB 465 -----NITKEQVPLVVEEYLDNNEHDKMLNRNMDIVQ 499  
QY 446 DATFVYATLQTAHYHRD 462  
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Db 500 DATFVYATLQTAHYHRE 516

RESULT 4

US-09-978-697-254  
Sequence 254, Application US/09978697  
Patent No. US20020169284A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Baker Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan  
APPLICANT: Ferrara, Napoleon  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth J.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Kuo, Sophia S.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James;  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Shelton, David L.  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumaas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
Acids Encoding the Same  
FILE REFERENCE: P2630P1C27  
CURRENT APPLICATION NUMBER: US/09/978,697  
CURRENT FILING DATE: 2001-10-16  
PRIOR APPLICATION NUMBER: 09/918585  
PRIOR FILING DATE: 2001-07-30  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
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; PRIOR FILING DATE: 1998-05-15  
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 65.1%; Score 2026.5; DB 9; Length 545;  
Best Local Similarity 80.3%; Pred. No. 1.9e-180;  
Matches 399; Conservative 5; Mismatches 26; Indels 67; Gaps 2;

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Qy 111 -----CLQBSWGQLASMYSTVRERYKWLRFSEDCLYLNIVY 145

Db 167 RL TATSASRVOASLLPQLSVGRCCLQESWGQLASMYSTRYKWLRFSEDCLYLVVY 226  
QY 146 APARAGDOLPMVWPGAFIVGAASSYEGSDLAAREKVVLFQHRIGIFGFLSTDD 205  
Db 227 APARAGDOLPMVWPGAFIVGAASSYEGSDLAAREKVVLFQHRIGIFGFLSTDD 286  
QY 206 SHARGNWGLDDMAALRWQENIAAFGGDPGNVTLFGQSAGAMSISGLMWSPLASGLFHR 265  
Db 287 SHARGNWGLDDMAALRWQENIAAFGGDPGNVTLFGQSAGAMSISGLMWSPLASGLFHR 346  
QY 266 AISQSGTALFRLFITSNPLKVAKKVAHLACGNHNSQIILVNCRLALSGTKVMKVSNMKRF 325  
Db 347 AISQSGTALFRLFITSNPLKVAKKVAHLACGNHNSQIILVNCRLALSGTKVMKVSNMKRF 406  
QY 326 LQINFORDEEIIWSMSPVVDGVIIPDDPLVLLTQCKVSSVPYLLGVNNLEFNWLLPYIM 385  
Db 407 LQINFORDEEIIWSMSPVVDGVIIPDDPLVLLTQCKVSSVPYLLGVNNLEFNWLLPY-- 464  
QY 386 KPFLNRQAMRKETITKMLNSTRLNITKEQVPLVVEEYLDNVNEHDWMLNRMMDIVQ 445  
Db 465 -----NITKEQVPLVVEEYLDNVNEHDWMLNRMMDIVQ 499  
QY 446 DATFVYATLQTAHYHRD 462  
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; Sequence 254, Application US/09978192A  
; Patent No. US2002017753A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Deenoyers, David  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Flvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Geritsen, Mary E.  
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; APPLICANT: Godowski, Paul J.  
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; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Shelton, David L.  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2630P1C9  
; CURRENT APPLICATION NUMBER: US/09/978,192A  
; CURRENT FILING DATE: 2001-10-15  
; PRIOR APPLICATION NUMBER: 09/918585  
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; PRIOR APPLICATION NUMBER: 60/062250  
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;; PRIOR APPLICATION NUMBER: 60/085338  
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;; PRIOR APPLICATION NUMBER: 60/085323  
;; PRIOR FILING DATE: 1998-05-13  
;; PRIOR APPLICATION NUMBER: 60/085582  
;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085700  
;; PRIOR FILING DATE: 1998-05-15

;; PRIOR APPLICATION NUMBER: 60/085689  
;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085579  
;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085580  
;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085573  
;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085704  
;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085697

Query Match 65.1%; Score 2026.5; DB 9; Length 545;  
Best Local Similarity 80.3%; Pred. No. 1.9e-180;  
Matches 399; Conservative 5; Mismatches 26; Indels 67; Gaps 2;

Qy 6 LPSTVLPSSLPTAGAGMSRWILCWSLTLCLMAQTALGALHTKRPQVVTKYGTLOQKQH 65  
Db 47 LGSTSTPATTSAPSSGFGTGLFGSKPATGTTGGTWTGALHTKRPQVVTKYGTLOQKQH 106  
Qy 66 VGKTPIQVFLGVFSPPLGILRFAPPEPEPWKGIRDATYPPG-----110  
Db 107 VGKTPIQVFLGVFSPPLGILRFAPPEPEPWKGIRDATYPPGSLALSPOGSAVARS 166  
Qy 111 -----CLQSWGQLASMYSTRYRYKWLRFSEDCLYLNVY 145  
Db 167 RLATATSASRVQASLLPQPLSVMGYRCLQBSWGQLASMYSTRYRYKWLRFSEDCLYLNVY 226  
Qy 146 APARAPGDPQLPVWVWFGGAFIVGAASSYEGSDLAAREKVVLVFOHRLGIFGFLSTDD 205  
Db 227 APARAPGDPQLPVWVWFGGAFIVGAASSYEGSDLAAREKVVLVFOHRLGIFGFLSTDD 286  
Qy 206 SHARGNWGLLDQWALRWVQENIAAFGDPGNVTLFGQAGAMSISGLWMSPLASGLFHR 265  
Db 287 SHARGNWGLLDQWALRWVQENIAAFGDPGNVTLFGQAGAMSISGLWMSPLASGLFHR 346  
Qy 266 AISQSGTALFRLFTTSNPLKVAKVLAHLAGCNHNSTQILVNCRLALSGTKVMRSNMRF 325  
Db 347 AISQSGTALFRLFTTSNPLKVAKVLAHLAGCNHNSTQILVNCRLALSGTKVMRSNMRF 406  
Qy 326 LQINFORDEEIIWSMSPVVDGVIPDDPLVLLTQGVSSVPYLLGVNNLEFNWLLPYIM 385  
Db 407 LQINFORDEEIIWSMSPVVDGVIPDDPLVLLTQGVSSVPYLLGVNNLEFNWLLPY-- 464  
Qy 386 KPFLNRQAMRKETITKMLWSTRTLNITKEQVPLVVEEYLDNVNHDWMLRNRMDIVQ 445  
Db 465 -----NITKEQVPLVVEEYLDNVNHDWMLRNRMDIVQ 499

Qy 446 DATFVYATLQTAHYHRD 462  
Db 500 DATFVYATLQTAHYHRE 516

RESULT 6  
US-09-999-832A-254  
; Sequence 254, Application US/09999832A  
; Publication No. US20020192706A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.



APPLICANT: Hillan, Kenneth J  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Kuo, Sophia S.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James;  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Shelton, David L.  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2630P1C63  
CURRENT APPLICATION NUMBER: US/09/999,832A  
CURRENT FILING DATE: 2001-10-24  
PRIOR APPLICATION NUMBER: 09/918595  
PRIOR FILING DATE: 2001-07-30  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/064249  
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PRIOR APPLICATION NUMBER: 60/066364  
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PRIOR APPLICATION NUMBER: 60/082797  
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PRIOR APPLICATION NUMBER: 60/084366  
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; PRIOR APPLICATION NUMBER: 60/085704
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; PRIOR APPLICATION NUMBER: 60/085697
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 65.1%; Score 2026.5; DB 9; Length 545;
Best Local Similarity 80.3%; Pred. No. 1.9e-180;
Matches 399; Conservative 5; Mismatches 26; Indels 67; Gaps 2;

Qy 6 LPSTVPLSLPTAGAGSHMRWILCSLTCLMAQTALGALHTKRPQVVKYGTLOGKQH 65
Db 47 LGSTSTPATTSPSSGGTGLFGSKPATFTLGGTNTGALHTKRPQVVKYGTLOGKQH 106
Qy 66 VGKTIQVFLGVFPFRPPLGILRFAPPEPPKNGIRDATTYPG----- 110
Db 107 VGKTIQVFLGVFPFRPPLGILRFAPPEPPKNGIRDATTYPGSLALSPGWSAVARS 166
Qy 111 -----CLQESWGQLASMYSTRERYKWLRFSEDCLYLVY 145
Db 167 RLTSASRVSQASLLPQLSVNGYRCQLQESWGQLASMYSTRERYKWLRFSEDCLYLVY 226
Qy 146 APARAGDQPLPMWFPFGAFIVGAASSVEGSDLAAREKVLVFLQHRIGIPGFLSTDD 205
Db 227 APARAGDQPLPMWFPFGAFIVGAASSVEGSDLAAREKVLVFLQHRIGIPGFLSTDD 286
Qy 206 SHARGNWGLDQWALRWQENIAAFGGDPNVTFLGQSAGMSISGLMWSPLASGLFHR 265
Db 287 SHARGNWGLDQWALRWQENIAAFGGDPNVTFLGQSAGMSISGLMWSPLASGLFHR 346
Qy 266 AISQSGTALFRLPITSNPLKVAKKVAHLACNHNSTQILVNCRLALSGTKVMSVSKMRF 325
Db 347 AISQSGTALFRLPITSNPLKVAKKVAHLACNHNSTQILVNCRLALSGTKVMSVSKMRF 406
Qy 326 LQINFORDEEIIWMSPPVVDGVIIPDDPLVLLTQKQSSVPYLLGVNNLEFNWLLPYTM 385
Db 407 LQINFORDEEIIWMSPPVVDGVIIPDDPLVLLTQKQSSVPYLLGVNNLEFNWLLPY-- 464
Qy 386 KPPLNQAMKEITITKWLSTRLLNITKEQVPLVVEEYLDNVDKWLNRNMDIVQ 445
Db 465 -----NITKEQVPLVVEEYLDNVDKWLNRNMDIVQ 499

Qy 446 DATFVYATLQTAHYHRD 462
Db 500 DATFVYATLQTAHYHRE 516

RESULT 7
US-09-978-189-254
; Sequence 254, Application US/09978189
; Publication No. US20030004102A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tamas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC7
; CURRENT APPLICATION NUMBER: US/09/978,189
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
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;; PRIOR FILING DATE: 1998-03-25  
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;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085697

Query Match 65.1%; Score 2026.5; DB 10; Length 545;

Best Local Similarity 80.3%; Pred. No. 1.9e-180;

Matches 399; Conservative 5; Mismatches 26; Indels 67; Gaps 2;

QY 6 LPSTVLPSLLPTAGAGSMRWILCWSLTLCLMAQTALGALHTRKPPQVTKYGLQGMH 65

Db 47 LGSTSTPATTSAAPSSGFGTGLFGSKPATGFTLGGTNTGALHTRKPPQVTKYGLQGMH 106

QY 66 VGKTPQVFLGVDFSRPPLGILRFAPPEPPEKGIKRDATTYPPG----- 110

Db 107 VGKTPQVFLGVDFSRPPLGILRFAPPEPPEKGIKRDATTYPPGWSLALSPGWSAVARS 166

QY 111 -----CLOESWGQSLASMTVSTRERYKWLRFSEDCLYLNVY 145  
Db 167 RLTSASRVSQASLLPQLSVMGVYRCLOESWGQSLASMTVSTRERYKWLRFSEDCLYLNVY 226  
QY 146 APARAPGDPQLPVMVWPFPGGAFIVGAASSYEGSDLAAREKVVLFQHLRGLFGFLSTDD 205  
Db 227 APARAPGDPQLPVMVWPFPGGAFIVGAASSYEGSDLAAREKVVLFQHLRGLFGFLSTDD 286  
QY 206 SHARGNWGLLDQMAALRWQENIAAFGDPGNVTILFGOSAGAMSTISGLMMSPLASGLFHR 265  
Db 287 SHARGNWGLLDQMAALRWQENIAAFGDPGNVTILFGOSAGAMSTISGLMMSPLASGLFHR 346  
QY 266 AISOEGTALFRLFITSNPLKVAKKVAHLAGCNHNSTQILVNCRLALSGTKVMRVSNKMR 325  
Db 347 AISOEGTALFRLFITSNPLKVAKKVAHLAGCNHNSTQILVNCRLALSGTKVMRVSNKMR 406  
QY 326 LQALNFORPDEIINWSMSPVVDGWIIPDDPLVLLTGKVSVPYLLGVNNEFNWLLPYIM 385  
Db 407 LQALNFORPDEIINWSMSPVVDGWIIPDDPLVLLTGKVSVPYLLGVNNEFNWLLPY-- 464  
QY 386 KFPLNRQARXETITKMLWSTRTLLNITKEOVPLVVEEYLDNVNHDWMLRNRMMDIVQ 445  
Db 465 -----NITKEOVPLVVEEYLDNVNHDWMLRNRMMDIVQ 499  
QY 446 DATFVYATLQTAHYHRD 462  
Db 500 DATFVYATLQTAHYHRE 516

## RESULT 8

US-09-978-608A-254  
; Sequence 254, Application US/09978608A  
; Publication No. US20030045462A1

## GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Kuo, Sophia S.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Shelton, David L.  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2630PIC22  
; CURRENT APPLICATION NUMBER: US/09/978,608A  
; CURRENT FILING DATE: 2001-10-16  
; NUMBER OF SEQ ID NOS: 624  
; Prior Application removed - See File Wrapper or Palm  
; SEQ ID NO 254  
; LENGTH: 545  
; TYPE: PRT  
; ORGANISM: Homo sapiens

US-09-978-608A-254

Query Match 65.1%; Score 2026.5; DB 10; Length 545;  
Best Local Similarity 80.3%; Pred. No. 1.9e-180;  
Matches 399; Conservative 5; Mismatches 26; Indels 67; Gaps 2;  
QY 6 LPSTVLPSSLTATAGAGNSMRWILCWSLTLCLMAQTALGALHTKRPOVVTKYGTLOGQKMH 65  
Db 47 LGSTSTPATTSAPSSGSGTGLFGSKPATGFTLGGTNTGALHTKRPOVVTKYGTLOGQKMH 106  
QY 66 VKTPIQVFLGVPPSRPPLGLILRPAPPPEPPPKGIRDAITTYPPG----- 110  
Db 107 VKTPIQVFLGVPPSRPPLGLILRPAPPPEPPPKGIRDAITTYPPGWSLSPGWSAVARS 166  
QY 111 -----CLOESWGQSLASMTVSTRERYKWLRFSEDCLYLNVY 145  
Db 167 RLTSASRVSQASLLPQLSVMGVYRCLOESWGQSLASMTVSTRERYKWLRFSEDCLYLNVY 226  
QY 146 APARAPGDPQLPVMVWPFPGGAFIVGAASSYEGSDLAAREKVVLFQHLRGLFGFLSTDD 205  
Db 227 APARAPGDPQLPVMVWPFPGGAFIVGAASSYEGSDLAAREKVVLFQHLRGLFGFLSTDD 286  
QY 206 SHARGNWGLLDQMAALRWQENIAAFGDPGNVTILFGOSAGAMSTISGLMMSPLASGLFHR 265  
Db 287 SHARGNWGLLDQMAALRWQENIAAFGDPGNVTILFGOSAGAMSTISGLMMSPLASGLFHR 346  
QY 266 AISOEGTALFRLFITSNPLKVAKKVAHLAGCNHNSTQILVNCRLALSGTKVMRVSNKMR 325  
Db 347 AISOEGTALFRLFITSNPLKVAKKVAHLAGCNHNSTQILVNCRLALSGTKVMRVSNKMR 406  
QY 326 LQALNFORPDEIINWSMSPVVDGWIIPDDPLVLLTGKVSVPYLLGVNNEFNWLLPYIM 385  
Db 407 LQALNFORPDEIINWSMSPVVDGWIIPDDPLVLLTGKVSVPYLLGVNNEFNWLLPY-- 464  
QY 386 KFPLNRQARXETITKMLWSTRTLLNITKEOVPLVVEEYLDNVNHDWMLRNRMMDIVQ 445  
Db 465 -----NITKEOVPLVVEEYLDNVNHDWMLRNRMMDIVQ 499  
QY 446 DATFVYATLQTAHYHRD 462  
Db 500 DATFVYATLQTAHYHRE 516

## RESULT 9

US-09-978-585A-254  
; Sequence 254, Application US/09978585A  
; Publication No. US20030049633A1

## GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Kuo, Sophia S.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Shelton, David L.  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel

APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE OF INVENTION: Acids Encoding the Same  
CURRENT APPLICATION NUMBER: US/09/978,585A  
CURRENT FILING DATE: 2001-10-16  
NUMBER OF SEQ ID NOS: 624  
Prior Application removed - See File Wrapper or Palm  
SEQ ID NO 254  
LENGTH: 545  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-978-585A-254

Query Match 65.1%; Score 2026.5; DB 10; Length 545;

Best Local Similarity 80.3%; Pred. No. 1.9e-180;  
Matches 399; Conservative 5; Mismatches 26; Indels 67; Gaps 2;

QY 6 LPSTVLPSSLPTAGACGMRWILCWSLTCLMAQTALGALHTKRPQVTKYGTLOGKQWH 65  
DB 47 LOSTSTPATSPSSGFGTGLGSKPATGFTLGGTNGALHTKRPQVTKYGTLOGKQWH 106  
QY 66 VGTPTQVFLGVFPSPRPPIGLIRFAPPEPPKPKGIRDATTYPGP----- 110  
DB 107 VGTPTQVFLGVFPSPRPPIGLIRFAPPEPPKPKGIRDATTYPGPWSLALSPGWSAVARS 166  
QY 111 -----CLOESWGLASMYSTERYKWLRFSDCLYLVNY 145  
DB 167 RUTATSASRVQASLLPQPLSVNGYRCLQESWGLASMYSTERYKWLRFSDCLYLVNY 226  
QY 146 APARAPGDPQLPVMWFFGCAFTVGAASYEGSDLAAREKVVLFQHRIGLFGFLSTDD 205  
DB 227 APARAPGDPQLPVMWFFGCAFTVGAASYEGSDLAAREKVVLFQHRIGLFGFLSTDD 286  
QY 206 SHARGNWGLLDQMAALRWQENIAAFPGDPGNVTILFGQSAGAMISGLMSPSLASGLFHR 265  
DB 287 SHARGNWGLLDQMAALRWQENIAAFPGDPGNVTILFGQSAGAMISGLMSPSLASGLFHR 346  
QY 266 AISOQSTALFRILFITSNPLKVAHVLAHCNHNSTQILNCLRALSGTKVMRVSNKWRP 325  
DB 347 AISOQSTALFRILFITSNPLKVAHVLAHCNHNSTQILNCLRALSGTKVMRVSNKWRP 406  
QY 326 LQINFORDEEIIWMSPPVVDGWIPIPDPLVLLTQKVSSVYLLGVNNLEFNWLLPYIM 385  
DB 407 LQINFORDEEIIWMSPPVVDGWIPIPDPLVLLTQKVSSVYLLGVNNLEFNWLLPY-- 464  
QY 386 KFLNQRQAKRKTITKMLWSTLLNITKEQVPLVVEEYLDNVNNEHDWMLNRNMDIVQ 445  
DB 465 -----NITKEQVPLVVEEYLDNVNNEHDWMLNRNMDIVQ 499  
QY 446 DATEFVYATLQTAHYHRD 462  
DB 500 DATEFVYATLQTAHYHRE 516

## RESULT 10

US-09-978-191A-254  
Sequence 254, Application US/09978191A  
Publication No. US20030050239A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Baker Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan  
APPLICANT: Ferrara, Napoleon  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth J.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Kuo, Sophia S.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Shelton, David L.  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2630P1C4  
CURRENT APPLICATION NUMBER: US/09/978,191A  
CURRENT FILING DATE: 2001-10-15  
PRIOR APPLICATION NUMBER: 09/918585  
PRIOR FILING DATE: 2001-07-30  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/064249  
PRIOR FILING DATE: 1997-11-03  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066364  
PRIOR FILING DATE: 1997-11-21  
PRIOR APPLICATION NUMBER: 60/077450  
PRIOR FILING DATE: 1998-03-10  
PRIOR APPLICATION NUMBER: 60/077632  
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PRIOR FILING DATE: 1998-03-30  
PRIOR APPLICATION NUMBER: 60/079923  
PRIOR FILING DATE: 1998-03-30  
PRIOR APPLICATION NUMBER: 60/080105  
PRIOR FILING DATE: 1998-03-31  
PRIOR APPLICATION NUMBER: 60/080107  
PRIOR FILING DATE: 1998-03-31  
PRIOR APPLICATION NUMBER: 60/080165

1	PRIOR FILING DATE: 1998-03-31	60/080194
2	PRIOR APPLICATION NUMBER: 60/080194	
3	PRIOR FILING DATE: 1998-03-31	60/080194
4	PRIOR APPLICATION NUMBER: 60/080194	
5	PRIOR FILING DATE: 1998-03-31	60/080327
6	PRIOR APPLICATION NUMBER: 60/080327	
7	PRIOR FILING DATE: 1998-04-01	60/080328
8	PRIOR APPLICATION NUMBER: 60/080328	
9	PRIOR FILING DATE: 1998-04-01	60/080333
10	PRIOR APPLICATION NUMBER: 60/080333	
11	PRIOR FILING DATE: 1998-04-01	60/080334
12	PRIOR APPLICATION NUMBER: 60/080334	
13	PRIOR FILING DATE: 1998-04-01	60/081070
14	PRIOR APPLICATION NUMBER: 60/081070	
15	PRIOR FILING DATE: 1998-04-08	60/081049
16	PRIOR APPLICATION NUMBER: 60/081049	
17	PRIOR FILING DATE: 1998-04-08	60/081071
18	PRIOR APPLICATION NUMBER: 60/081071	
19	PRIOR FILING DATE: 1998-04-08	60/081195
20	PRIOR APPLICATION NUMBER: 60/081195	
21	PRIOR FILING DATE: 1998-04-08	60/081203
22	PRIOR APPLICATION NUMBER: 60/081203	
23	PRIOR FILING DATE: 1998-04-09	60/081229
24	PRIOR APPLICATION NUMBER: 60/081229	
25	PRIOR FILING DATE: 1998-04-09	60/081919
26	PRIOR APPLICATION NUMBER: 60/081919	
27	PRIOR FILING DATE: 1998-04-15	60/081955
28	PRIOR APPLICATION NUMBER: 60/081955	
29	PRIOR FILING DATE: 1998-04-15	60/081817
30	PRIOR APPLICATION NUMBER: 60/081817	
31	PRIOR FILING DATE: 1998-04-15	60/081838
32	PRIOR APPLICATION NUMBER: 60/081838	
33	PRIOR FILING DATE: 1998-04-15	60/082568
34	PRIOR APPLICATION NUMBER: 60/082568	
35	PRIOR FILING DATE: 1998-04-21	60/082569
36	PRIOR APPLICATION NUMBER: 60/082569	
37	PRIOR FILING DATE: 1998-04-21	60/082704
38	PRIOR APPLICATION NUMBER: 60/082704	
39	PRIOR FILING DATE: 1998-04-22	60/082804
40	PRIOR APPLICATION NUMBER: 60/082804	
41	PRIOR FILING DATE: 1998-04-22	60/082700
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43	PRIOR FILING DATE: 1998-04-22	60/082797
44	PRIOR APPLICATION NUMBER: 60/082797	
45	PRIOR FILING DATE: 1998-04-22	60/082796
46	PRIOR APPLICATION NUMBER: 60/082796	
47	PRIOR FILING DATE: 1998-04-23	60/083336
48	PRIOR APPLICATION NUMBER: 60/083336	
49	PRIOR FILING DATE: 1998-04-27	60/083322
50	PRIOR APPLICATION NUMBER: 60/083322	
51	PRIOR FILING DATE: 1998-04-28	60/083496
52	PRIOR APPLICATION NUMBER: 60/083496	
53	PRIOR FILING DATE: 1998-04-29	60/083499
54	PRIOR APPLICATION NUMBER: 60/083499	
55	PRIOR FILING DATE: 1998-04-29	60/083545
56	PRIOR APPLICATION NUMBER: 60/083545	
57	PRIOR FILING DATE: 1998-04-29	60/083554
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59	PRIOR FILING DATE: 1998-04-29	60/083558
60	PRIOR APPLICATION NUMBER: 60/083558	
61	PRIOR FILING DATE: 1998-04-29	60/083559
62	PRIOR APPLICATION NUMBER: 60/083559	
63	PRIOR FILING DATE: 1998-04-29	60/083500
64	PRIOR APPLICATION NUMBER: 60/083500	
65	PRIOR FILING DATE: 1998-04-29	60/083742
66	PRIOR APPLICATION NUMBER: 60/083742	
67	PRIOR FILING DATE: 1998-04-30	60/084366
68	PRIOR APPLICATION NUMBER: 60/084366	
69	PRIOR FILING DATE: 1998-05-05	60/084366
70	PRIOR APPLICATION NUMBER: 60/084366	

1	PRIOR APPLICATION NUMBER: 60/084414	
2	PRIOR FILING DATE: 1998-05-06	
3	PRIOR APPLICATION NUMBER: 60/084441	
4	PRIOR FILING DATE: 1998-05-06	
5	PRIOR APPLICATION NUMBER: 60/084637	
6	PRIOR FILING DATE: 1998-05-07	
7	PRIOR APPLICATION NUMBER: 60/084639	
8	PRIOR FILING DATE: 1998-05-07	
9	PRIOR APPLICATION NUMBER: 60/084640	
10	PRIOR FILING DATE: 1998-05-07	
11	PRIOR APPLICATION NUMBER: 60/084598	
12	PRIOR FILING DATE: 1998-05-07	
13	PRIOR APPLICATION NUMBER: 60/084600	
14	PRIOR FILING DATE: 1998-05-07	
15	PRIOR APPLICATION NUMBER: 60/084627	
16	PRIOR FILING DATE: 1998-05-07	
17	PRIOR APPLICATION NUMBER: 60/084643	
18	PRIOR FILING DATE: 1998-05-07	
19	PRIOR APPLICATION NUMBER: 60/085339	
20	PRIOR FILING DATE: 1998-05-13	
21	PRIOR APPLICATION NUMBER: 60/085338	
22	PRIOR FILING DATE: 1998-05-13	
23	PRIOR APPLICATION NUMBER: 60/085323	
24	PRIOR FILING DATE: 1998-05-13	
25	PRIOR APPLICATION NUMBER: 60/085582	
26	PRIOR FILING DATE: 1998-05-15	
27	PRIOR APPLICATION NUMBER: 60/085700	
28	PRIOR FILING DATE: 1998-05-15	
29	PRIOR APPLICATION NUMBER: 60/085689	
30	PRIOR FILING DATE: 1998-05-15	
31	PRIOR APPLICATION NUMBER: 60/085579	
32	PRIOR FILING DATE: 1998-05-15	
33	PRIOR APPLICATION NUMBER: 60/085580	
34	PRIOR FILING DATE: 1998-05-15	
35	PRIOR APPLICATION NUMBER: 60/085573	
36	PRIOR FILING DATE: 1998-05-15	
37	PRIOR APPLICATION NUMBER: 60/085704	
38	PRIOR FILING DATE: 1998-05-15	
39	PRIOR APPLICATION NUMBER: 60/085697	

Query Match 65.1%; Score 2026.5; DB 10; Length 545;  
Best Local Similarity 80.3%; Pred. No. 1.9e-180;  
Matches 399; Conservative 5; Mismatches 26; Indels 67;

Qy	6	LPSTVPLSPLLPTAGAGMSRWII	LCWSJTLCLMAQTALGALHTKRP	VQVVTKYGTGLQKQWH	65
			:	:	
Db	47	LGSTSTPATTSAPSSGFGTGL	FGSKPATFTLGGTNTGALHTKRP	VQVVTKYGTGLQKQWH	106
			:	:	
Qy	66	VGKTPQVFLGVFPSPRPLGIL	RAPPEPPEPWKIGIRDATTPPG-	-----	110
			:	:	
Db	107	VGKTPIQVFLGVFPSPRPLGIL	RAPPEPPEPWKIGIRDATTPPGWS	LALSPGWSAVARS	166
			:	:	
Qy	111	-----	CLQBSWGQLASMYVSTRERYK	KWIRFSEDCILYLVNY	145
			:	:	
Db	167	RLTATSASRVQASILLPOPLS	VMWGYRCLQBSWGQLASMYVSTR	ERYKWLRFSEDCILYLVNY	226
			:	:	
Qy	146	APARAPGDPQLPVMMWPPGGA	FIVGAASSYEGSDLAAREKVVL	VFLQHRLIGFGLSTDD	205
			:	:	
Db	227	APARAPGDPQLPVMMWPPGGA	FIVGAASSYEGSDLAAREKVVL	VFLQHRLIGFGLSTDD	286
			:	:	
Qy	206	SHARGNWGLLDQAAALRWQEN	TAAFGSDPGNVTLFGQSAGAMSI	SGILMWSPLASGLFPHR	265
			:	:	
Db	287	SHARGNWGLLDQAAALRWQEN	TAAFGSDPGNVTLFGQSAGAMSI	SGILMWSPLASGLFPHR	346
			:	:	
Qy	266	AISQSGTALPRLFITSNPLK	VAKKVAHLACGNHNSTOILLV	NCLRALSGTKVMRVSNKORF	325
			:	:	
Db	347	AISQSGTALPRLFITSNPLK	VAKKVAHLACGNHNSTOILLV	NCLRALSGTKVMRVSNKORF	406
			:	:	
Qy	326	LQNLNFORDDPEIITWSMS	PVVGVVIPPDPPLVLLTQGVK	SVSPYLLGVNNLEFNWLLPYIM	385
			:	:	
Db	407	LQNLNFORDDPEIITWSMS	PVVGVVIPPDPPLVLLTQGVK	SVSPYLLGVNNLEFNWLLPY--	464
			:	:	
Qy	386	KFPLNRQAMKEITITKMLW	STRITLLNTITKEQVPLVWBEY	ILDNNVNEHDKWMLNRNMWDIVQ	445

|||||-----NITKEQVPLVVEEYLDNVNEHDKMLRNRMWDIVQ 499

Db 465  
Qy 446 DATFVYATLQTAHYHRD 462  
Db 500 DATFVYATLQTAHYHRE 516

RESULT 11  
US-09-978-403A-254  
Sequence 254, Application US/09978403A  
Publication No. US20030050240A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Baker Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Baton, Dan  
APPLICANT: Ferrara, Napoleon  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth J.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Kuo, Sophia S.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James;  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Shelton, David L.  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2630P1C17  
CURRENT APPLICATION NUMBER: US/09/978,403A  
CURRENT FILING DATE: 2002-03-19  
PRIOR APPLICATION NUMBER: 09/918585  
PRIOR FILING DATE: 2001-07-30  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/064249  
PRIOR FILING DATE: 1997-11-03  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066364  
PRIOR FILING DATE: 1997-11-21  
PRIOR APPLICATION NUMBER: 60/077450  
PRIOR FILING DATE: 1998-03-10  
PRIOR APPLICATION NUMBER: 60/077632  
PRIOR FILING DATE: 1998-03-11  
PRIOR APPLICATION NUMBER: 60/077641  
PRIOR FILING DATE: 1998-03-11  
PRIOR APPLICATION NUMBER: 60/077649  
PRIOR FILING DATE: 1998-03-11  
PRIOR APPLICATION NUMBER: 60/077791  
PRIOR FILING DATE: 1998-03-12  
PRIOR APPLICATION NUMBER: 60/078004  
PRIOR FILING DATE: 1998-03-13  
PRIOR APPLICATION NUMBER: 60/078886  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/078936  
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PRIOR FILING DATE: 1998-03-20  
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PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/079294  
PRIOR FILING DATE: 1998-03-25  
PRIOR APPLICATION NUMBER: 60/079656  
PRIOR FILING DATE: 1998-03-26  
PRIOR APPLICATION NUMBER: 60/079664  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/079689  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/079663  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/079728  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/079786  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/079920  
PRIOR FILING DATE: 1998-03-30  
PRIOR APPLICATION NUMBER: 60/079923  
PRIOR FILING DATE: 1998-03-30  
PRIOR APPLICATION NUMBER: 60/080105  
PRIOR FILING DATE: 1998-03-31  
PRIOR APPLICATION NUMBER: 60/080107  
PRIOR FILING DATE: 1998-03-31  
PRIOR APPLICATION NUMBER: 60/080165  
PRIOR FILING DATE: 1998-03-31  
PRIOR APPLICATION NUMBER: 60/080194  
PRIOR FILING DATE: 1998-03-31  
PRIOR APPLICATION NUMBER: 60/080327  
PRIOR FILING DATE: 1998-04-01  
PRIOR APPLICATION NUMBER: 60/080328  
PRIOR FILING DATE: 1998-04-01  
PRIOR APPLICATION NUMBER: 60/080333  
PRIOR FILING DATE: 1998-04-01  
PRIOR APPLICATION NUMBER: 60/080334  
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PRIOR APPLICATION NUMBER: 60/081070  
PRIOR FILING DATE: 1998-04-08  
PRIOR APPLICATION NUMBER: 60/081049  
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PRIOR APPLICATION NUMBER: 60/081195  
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PRIOR FILING DATE: 1998-04-09  
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PRIOR APPLICATION NUMBER: 60/081817  
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PRIOR APPLICATION NUMBER: 60/082704  
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PRIOR APPLICATION NUMBER: 60/082804  
PRIOR FILING DATE: 1998-04-22  
PRIOR APPLICATION NUMBER: 60/082700  
PRIOR FILING DATE: 1998-04-22  
PRIOR APPLICATION NUMBER: 60/082797  
PRIOR FILING DATE: 1998-04-22  
PRIOR APPLICATION NUMBER: 60/082796  
PRIOR FILING DATE: 1998-04-23  
PRIOR APPLICATION NUMBER: 60/083336



;; PRIOR FILING DATE: 1998-04-27  
;; PRIOR APPLICATION NUMBER: 60/083322  
;; PRIOR FILING DATE: 1998-04-28  
;; PRIOR APPLICATION NUMBER: 60/083392  
;; PRIOR FILING DATE: 1998-04-29  
;; PRIOR APPLICATION NUMBER: 60/083495  
;; PRIOR FILING DATE: 1998-04-29  
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;; PRIOR FILING DATE: 1998-04-29  
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;; PRIOR APPLICATION NUMBER: 60/083559  
;; PRIOR FILING DATE: 1998-04-29  
;; PRIOR APPLICATION NUMBER: 60/083500  
;; PRIOR FILING DATE: 1998-04-29  
;; PRIOR APPLICATION NUMBER: 60/083742  
;; PRIOR FILING DATE: 1998-04-30  
;; PRIOR APPLICATION NUMBER: 60/084366  
;; PRIOR FILING DATE: 1998-05-05  
;; PRIOR APPLICATION NUMBER: 60/084414  
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;; PRIOR APPLICATION NUMBER: 60/084637  
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;; PRIOR APPLICATION NUMBER: 60/085339  
;; PRIOR FILING DATE: 1998-05-13  
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;; PRIOR FILING DATE: 1998-05-13  
;; PRIOR APPLICATION NUMBER: 60/085323  
;; PRIOR FILING DATE: 1998-05-13  
;; PRIOR APPLICATION NUMBER: 60/085582  
;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085700  
;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085689  
;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085579  
;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085580  
;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085573  
;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085704  
;; PRIOR FILING DATE: 1998-05-15  
;; PRIOR APPLICATION NUMBER: 60/085697

Query Match 65.1%; Score 2026.5; DB 10; Length 545;  
Best Local Similarity 80.3%; Pred. No. 1.9e-180;  
Matches 399; Conservative 5; Mismatches 26; Indels 67; Gaps 2;

Qy 6 LPSTVPLSLPTAGAGSMRWILCWSLTLCIMQAQTALGALHTKRPQVWTKYGTLOGKQWH 65  
Db 47 LGSTSTPATTSAPSSGFGTGLGSKPATGTLOGTNTGALHTKRPQVWTKYGTLOGKQWH 106

Qy 66 VGKTPIQVFLGVDFSRPPLGILRAPPEPPEPWKGIKIRDTATYPGP----- 110  
Db 107 VGKTPIQVFLGVDFSRPPLGILRAPPEPPEPWKGIKIRDTATYPGPWSLSPGWSAVARS 166  
Qy 111 -----CLQESWGQLASMYVSTRERYKWLRFSEDCLYLNIV 145  
Db 167 RLATASRVOASLLPOPLSVGWYRCQESWGQLASMYVSTRERYKWLRFSEDCLYLNIV 226  
Qy 146 APARAPGDPQLPVMVMPFGGAFIVGAASSYEGSDLAAREKVVLVFLQHRIGIFGLSTDD 205  
Db 227 APARAPGDPQLPVMVMPFGGAFIVGAASSYEGSDLAAREKVVLVFLQHRIGIFGLSTDD 286  
Qy 206 SHARGNWGLLDQMAALRWQENIAAFCGDPGNVTLFQOSAGAMSISGLMWSPLASGLFHR 265  
Db 287 SHARGNWGLLDQMAALRWQENIAAFCGDPGNVTLFQOSAGAMSISGLMWSPLASGLFHR 346  
Qy 266 AISQSGTALPRLFTTSNPLKVAKVLAHLAGCNHNSTOILVNCRLALSGTKVMRVSNKQRF 325  
Db 347 AISQSGTALPRLFTTSNPLKVAKVLAHLAGCNHNSTOILVNCRLALSGTKVMRVSNKQRF 406  
Qy 326 LQINFORDPDEIIWSMSPVVDGVVIPPDDPLVLLTQGVSSVPVLLGVNNLEFNWLLPYIM 385  
Db 407 LQINFORDPDEIIWSMSPVVDGVVIPPDDPLVLLTQGVSSVPVLLGVNNLEFNWLLPY-- 464  
Qy 386 KFFLNQAMRKETITKMLNSTRLNLTKEQVPLVVEEYLDNVNNEHDKMLRNMMDIVQ 445  
Db 465 -----NITKEQVPLVVEEYLDNVNNEHDKMLRNMMDIVQ 499  
Qy 446 DATFVYATLQTAHYHRD 462  
Db 500 DATFVYATLQTAHYHRE 516

RESULT 12

US-09-978-564A-254  
; Sequence 254, Application US/09978564A  
; Publication No. US20030050241A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Kuo, Sophia S.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Shelton, David L.  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2630P1C25  
; CURRENT APPLICATION NUMBER: US/09/978,564A  
; CURRENT FILING DATE: 2001-10-16  
; PRIOR APPLICATION NUMBER: 09/918585  
; PRIOR FILING DATE: 2001-07-30  
; PRIOR APPLICATION NUMBER: 60/062250

[illegible]

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, PRIOR FILING DATE: 1998-05-13
, PRIOR APPLICATION NUMBER: 60/085582
, PRIOR FILING DATE: 1998-05-15
, PRIOR APPLICATION NUMBER: 60/085700
, PRIOR FILING DATE: 1998-05-15
, PRIOR APPLICATION NUMBER: 60/085689
, PRIOR FILING DATE: 1998-05-15
, PRIOR APPLICATION NUMBER: 60/085579
, PRIOR FILING DATE: 1998-05-15
, PRIOR APPLICATION NUMBER: 60/085580
, PRIOR FILING DATE: 1998-05-15
, PRIOR APPLICATION NUMBER: 60/085573
, PRIOR FILING DATE: 1998-05-15
, PRIOR APPLICATION NUMBER: 60/085704
, PRIOR FILING DATE: 1998-05-15
, PRIOR APPLICATION NUMBER: 60/085697

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Query Match

Accuracy Match	89.7%	Score 2020.5; DS 16;	Gaps 2;
Best Local Similarity	80.3%;	Pred. NO. 1.9e-180;	Indels 67;
Matches 399;	Conservative	5; Mismatches 26;	Gaps 2;

Qy	6	LPSTVLPSSLPTAGAGNWRWILCWSLTCLCMAQTALGALHTRPQVVTYKGTLOGKQMH	65
Db	47	LGSTSTPATTSAPSSGFGTGLFGSKPATGFTGLGCTNTGALHTRPQVVTYKGTLOGKQMH	106
Qy	66	VCKTPIQVPLGVPPFSRPPGLTILRFAPPEPPKPGKIRDATTYPPG	110
Db	107	VCKTPIQVPLGVPPFSRPPGLTILRFAPPEPPKPGKIRDATTYPPGWSLALSPGWSAVARS	166
Qy	111	-----CLQESWGQLASVMVSTTRERYKWLRPSEBCLVINY	145
Db	167	RLTATSASRVQASLLPQLPSVWGVRCLQESWGQLASVMVSTTRERYKWLRPSEBCLVINY	226
Qy	146	APARAPGDPQLPVMVWPPFGAGFIVGAASSYEGSDLAAREKVILVFLQHLRIGIFGLSTDD	205
Db	227	APARAPGDPQLPVMVWPPFGAGFIVGAASSYEGSDLAAREKVILVFLQHLRIGIFGLSTDD	286
Qy	206	SHARGNWGLLDMAALRWQZNIAAFPGDPGNVTLFGQSAGAMSISGLMMSPIASGLFHR	265
Db	287	SHARGNWGLLDMAALRWQZNIAAFPGDPGNVTLFGQSAGAMSISGLMMSPIASGLFHR	346
Qy	266	ALSQSGTALFRLFTPSNLPKVAKVHLAGCNHNSTOILVNCURLASGTVKWRVSNKRF	325
Db	347	ALSQSGTALFRLFTPSNLPKVAKVHLAGCNHNSTOILVNCURLASGTVKWRVSNKRF	406
Qy	326	LQNLNFORDPDEELIWSMSPVBDGWIPODDPLVLLTQGVSSVPYLLGVNNLEFNWLLPYIM	385
Db	407	LQNLNFORDPDEELIWSMSPVBDGWIPODDPLVLLTQGVSSVPYLLGVNNLEFNWLLPY	464
Qy	386	KPFLNRQMRKETITIKMLWSTRTLLNTKQVPLVVEEYLDNVNEHDKWMLRNRMDIYQ	445
Db	465	-----NITKEQVPLVVEEYLDNVNEHDKWMLRNRMDIYQ	499
Qy	446	DATFYATLOTAYHYRD	462
Db	500	DATFYATLOTAYHYRE	516

## RESULT 13

US-09-999-833A-254  
; Sequence 254, Application US/0999833A  
; Publication No. US20030054405A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter

[illegible]





[illegible]



